

## Features

- **Global certificates**
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14, Class I power unit
- Built-in active PFC function
- No load power consumption < 0.15W
- **Energy efficiency Level VI**
- Comply with EISA 2007/DoE, NRCAN, Korea K-MEPS, AU/NZ MEPS, EU ErP and CoC Version 5
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- -30~+70°C wide range working temperature
- LED indicator for power on
- 3 years warranty

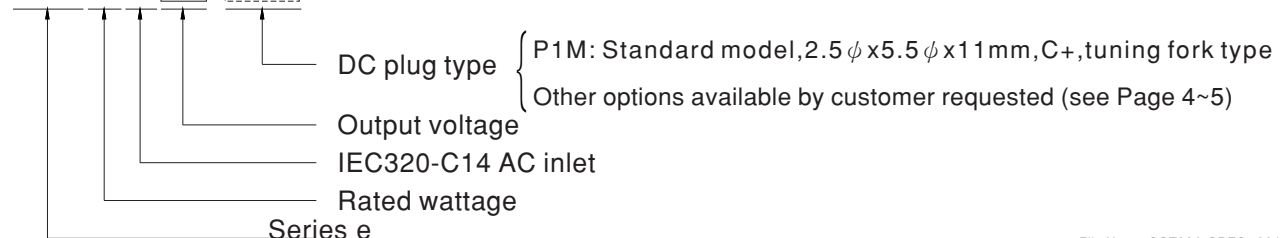
## Description

GST90A is a highly reliable, 90W desktop style single-output green adaptor series. This product is a class I power unit (with FG), equipped with a standard IEC320-C14 AC inlet and adopting the input range from 90VAC to 264VAC. The entire series supplies different models with output voltages ranging between 12VDC and 48VDC that can satisfy the demands for various types of consumer electronic devices.

With the efficiency up to 91% and the extremely low no-load power consumption below 0.15W, GST90A is compliant with USA EISA 2007/DoE, Canada NRCAN, Australia and New Zealand MEPS, Korea K-MEPS, EU ErP and Code of Conduct (CoC) Version 5. The supreme feature allows the adaptor to save the energy when it is either under the operating mode or the standby mode. The entire series utilizes the 94V-0 flame retardant plastic case. GST90A is certified for the international safety regulations.

## Model Encoding

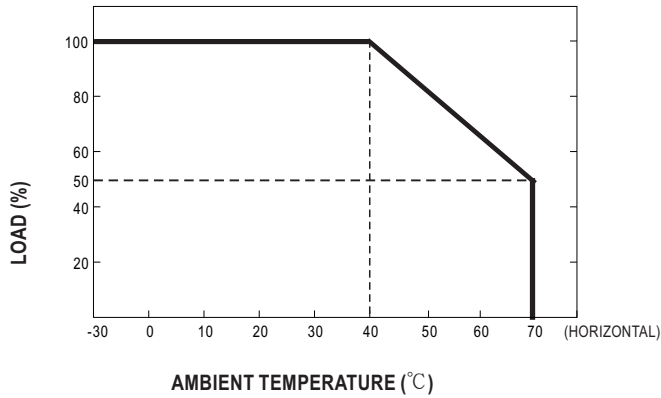
**GST 90 A 12 -P1M**



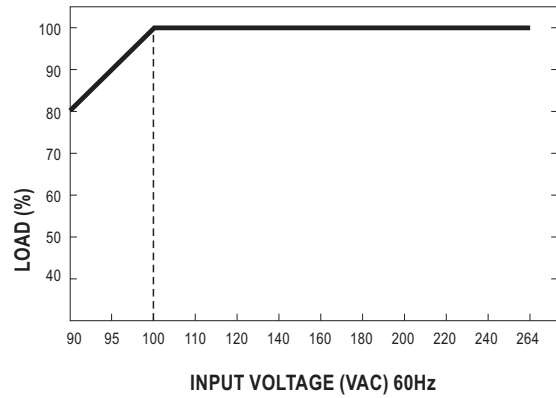
## SPECIFICATION

| ORDER NO.                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | GST90A12-P1M                                                                                                                                                                                          | GST90A15-P1M                                                                                                   | GST90A19-P1M | GST90A24-P1M                                                                 | GST90A48-P1M                            |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------|-----------------------------------------|
| OUTPUT                      | SAFETY MODEL NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | GST90A12                                                                                                                                                                                              | GST90A15                                                                                                       | GST90A19     | GST90A24                                                                     | GST90A48                                |
|                             | DC VOLTAGE <span>Note.2</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 12V                                                                                                                                                                                                   | 15V                                                                                                            | 19V          | 24V                                                                          | 48V                                     |
|                             | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.67A                                                                                                                                                                                                 | 6A                                                                                                             | 4.74A        | 3.75A                                                                        | 1.87A                                   |
|                             | CURRENT RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0 ~ 6.67A                                                                                                                                                                                             | 0 ~ 6A                                                                                                         | 0 ~ 4.74A    | 0 ~ 3.75A                                                                    | 0 ~ 1.87A                               |
|                             | RATED POWER (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 80W                                                                                                                                                                                                   | 90W                                                                                                            | 90W          | 90W                                                                          | 90W                                     |
|                             | RIPPLE & NOISE (max.) <span>Note.3</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 120mVp-p                                                                                                                                                                                              | 150mVp-p                                                                                                       | 180mVp-p     | 200mVp-p                                                                     | 200mVp-p                                |
|                             | VOLTAGE TOLERANCE <span>Note.4</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ± 5.0%                                                                                                                                                                                                | ± 5.0%                                                                                                         | ± 4.0%       | ± 3.0%                                                                       | ± 2.5%                                  |
|                             | LINE REGULATION <span>Note.5</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ± 1.0%                                                                                                                                                                                                | ± 1.0%                                                                                                         | ± 1.0%       | ± 1.0%                                                                       | ± 1.0%                                  |
|                             | LOAD REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ± 5.0%                                                                                                                                                                                                | ± 5.0%                                                                                                         | ± 4.0%       | ± 3.0%                                                                       | ± 2.5%                                  |
|                             | SETUP, RISE TIME <span>Note.6</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1000ms, 50ms / 230VAC      1000ms, 50ms / 115VAC at full load                                                                                                                                         |                                                                                                                |              |                                                                              |                                         |
|                             | HOLD UP TIME (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 20ms / 230VAC      20ms / 115VAC at full load                                                                                                                                                         |                                                                                                                |              |                                                                              |                                         |
| INPUT                       | VOLTAGE RANGE <span>Note.7</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 90 ~ 264VAC    127 ~ 370VDC                                                                                                                                                                           |                                                                                                                |              |                                                                              |                                         |
|                             | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 47 ~ 63Hz                                                                                                                                                                                             |                                                                                                                |              |                                                                              |                                         |
|                             | POWER FACTOR (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PF>0.91 / 230VAC      PF>0.95 / 115VAC at full load                                                                                                                                                   |                                                                                                                |              |                                                                              |                                         |
|                             | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 89%                                                                                                                                                                                                   | 89.5%                                                                                                          | 90%          | 90%                                                                          | 91%                                     |
|                             | AC CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.3A / 115VAC      0.6A / 230VAC                                                                                                                                                                      |                                                                                                                |              |                                                                              |                                         |
|                             | INRUSH CURRENT (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Cold start   35 / 115AC    70A / 230VAC                                                                                                                                                               |                                                                                                                |              |                                                                              |                                         |
|                             | LEAKAGE CURRENT(max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1mA / 240VAC                                                                                                                                                                                          |                                                                                                                |              |                                                                              |                                         |
| PROTECTION                  | OVERLOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 110 ~ 150% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed                                                                               |                                                                                                                |              |                                                                              |                                         |
|                             | OVER VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 105 ~ 135% rated output voltage<br>Protection type : Shut down o/p voltage, re-power on to recover                                                                                                    |                                                                                                                |              |                                                                              |                                         |
|                             | OVER TEMPERATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Shut down o/p voltage, re-power on to recover                                                                                                                                                         |                                                                                                                |              |                                                                              |                                         |
| ENVIRONMENT                 | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -30 ~ +70℃ (Refer to "Derating Curve")                                                                                                                                                                |                                                                                                                |              |                                                                              |                                         |
|                             | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20% ~ 90% RH non-condensing                                                                                                                                                                           |                                                                                                                |              |                                                                              |                                         |
|                             | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -40 ~ +85℃, 10 ~ 95% RH non-condensing                                                                                                                                                                |                                                                                                                |              |                                                                              |                                         |
|                             | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ± 0.03% / °C (0~40℃)                                                                                                                                                                                  |                                                                                                                |              |                                                                              |                                         |
|                             | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                                                                                                                               |                                                                                                                |              |                                                                              |                                         |
| SAFETY & EMC<br>(Note. 9)   | SAFETY STANDARDS <span>Note. 8</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UL62368-1, CSA C22.2 No.62368-1, TUV EN62368-1, BSMI CNS14336, CCC GB4943.1, PSE J60950-1, AS/NZS 60950.1 , BIS IS13252, KC K60950-1, EAC TP TC 004 approved; SIRIM MS IEC60950-1 (optional) approved |                                                                                                                |              |                                                                              |                                         |
|                             | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | I/P-O/P: 3KVAC    I/P-FG:2KVAC    O/P-FG:0.5KVAC                                                                                                                                                      |                                                                                                                |              |                                                                              |                                         |
|                             | ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH                                                                                                                                             |                                                                                                                |              |                                                                              |                                         |
|                             | EMC EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Parameter                                                                                                                                                                                             | Standard                                                                                                       |              |                                                                              | Test Level / Note                       |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Conducted emission                                                                                                                                                                                    | EN55032(CISPR32),FCC PART 15 / CISPR22<br>CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1<br>EAC TP TC 020,MSIP KN32 |              |                                                                              | Class B                                 |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Radiated emission                                                                                                                                                                                     | EN55032(CISPR32),FCC PART 15 / CISPR22<br>CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1<br>EAC TP TC 020,MSIP KN32 |              |                                                                              | Class B                                 |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Harmonic current                                                                                                                                                                                      | EN61000-3-2,GB9254                                                                                             |              |                                                                              | Class A                                 |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Voltage flicker                                                                                                                                                                                       | EN61000-3-3                                                                                                    |              |                                                                              | -----                                   |
|                             | EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Parameter                                                                                                                                                                                             | Standard                                                                                                       |              |                                                                              | Test Level /Note                        |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ESD                                                                                                                                                                                                   | EN61000-4-2                                                                                                    |              |                                                                              | Level 4, 15KV air; Level 4, 8KV contact |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RF field susceptibility                                                                                                                                                                               | EN61000-4-3                                                                                                    |              |                                                                              | Level 2, 3V/m                           |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | EFT bursts                                                                                                                                                                                            | EN61000-4-4                                                                                                    |              |                                                                              | Level 2, 1KV                            |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Surge susceptibility                                                                                                                                                                                  | EN61000-4-5                                                                                                    |              |                                                                              | Level 3, 1KV/Line-Line , 2KV/Line-FG    |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Conducted susceptibility                                                                                                                                                                              | EN61000-4-6                                                                                                    |              |                                                                              | Level 2, 3V                             |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Magnetic field immunity                                                                                                                                                                               | EN61000-4-8                                                                                                    |              |                                                                              | Level 2, 3A/m                           |
| Voltage dips , interruption |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | EN61000-4-11                                                                                                                                                                                          |                                                                                                                |              | >95% dip 0. 5 periods, 30% dip 25 periods,<br>>95% interruptions 250 periods |                                         |
| OTHERS                      | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 348.7K hrs min. MIL-HDBK-217F(25℃)                                                                                                                                                                    |                                                                                                                |              |                                                                              |                                         |
|                             | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 145*60*32mm (L*W*H)                                                                                                                                                                                   |                                                                                                                |              |                                                                              |                                         |
|                             | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.45Kg; 30pcs/14.05Kg/1CUFT                                                                                                                                                                           |                                                                                                                |              |                                                                              |                                         |
| CONNECTOR                   | PLUG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | See page 4~5 ; Other type available by customer requested                                                                                                                                             |                                                                                                                |              |                                                                              |                                         |
|                             | CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | See page 4~5 ; Other type available by customer requested                                                                                                                                             |                                                                                                                |              |                                                                              |                                         |
| NOTE                        | 1. All parameters are specified at 230VAC input, rated load, 25℃ 70% RH ambient.<br>2. DC voltage: The output voltage set at point measure by plug terminal & 50% load.<br>3. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1μf & 47μf capacitor.<br>4. Tolerance: includes set up tolerance, line regulation, load regulation.<br>5. Line regulation is measured from low line to high line at rated load.<br>6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.<br>7. Derating may be needed under low input voltages. Pleas check the derating curve for more details.<br>8. The demand for Malaysia safety is processed with the order no. GST90A □ -SIRIM by request. Please contact MEAN WELL for details.<br>9. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMC testing of component power supplies" (as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a> )<br>MeanWell Direct, Orion House, Calveley Park, Aldermaston, Berkshire, RG7 8SN<br>Tel: +44 (0)118 9703858 Email: <a href="mailto:sales@meanwelldirect.co.uk">sales@meanwelldirect.co.uk</a> |                                                                                                                                                                                                       |                                                                                                                |              |                                                                              |                                         |

## Derating Curve

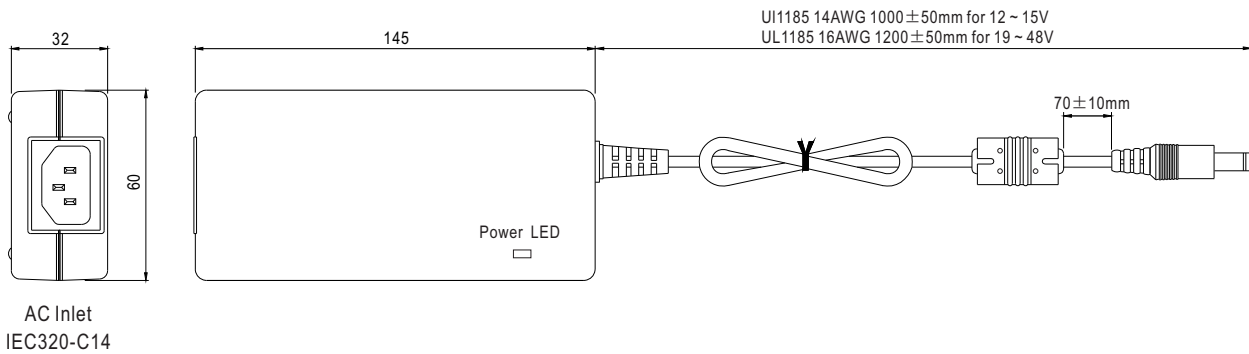


## Static Characteristics



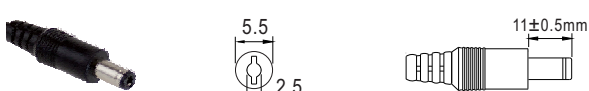
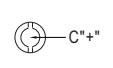
## Mechanical Specification

Case No. GS90A Unit:mm

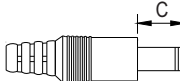
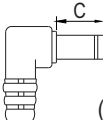
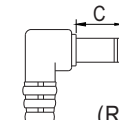
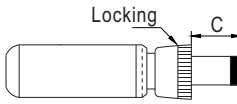
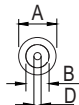
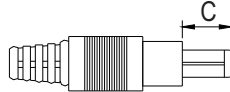
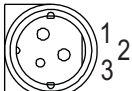
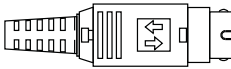


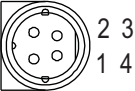
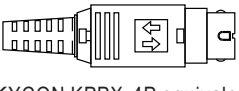
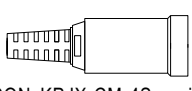
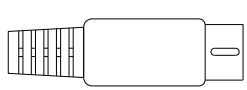
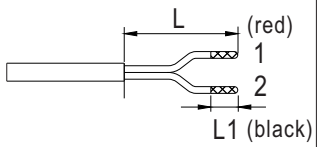
## DC output plug

Standard plug: P1M

| P1M                                                                                 | Pin Assignment                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                                                                                                                                               |
|                                                                                     | <p>Outside  Inside </p> <p>-V not connected to AC FG</p> |

◎ Optional DC plug:

| Tuning Fork Style                                                                                                                                                                                                                                                                                       |                                                                                                      | Type No.   | A              | B      | C     |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------|----------------|--------|-------|------------|
|                                                                                                                                                                                                                                                                                                         |                                                                                                      |            | OD             | ID     | L     |            |
| <br>                                                                                                                                  | <br>(Straight)      | P1I        | 5.5            | 2.1    | 9.5   |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | P1J        | 5.5            | 2.1    | 11.0  |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | P1L        | 5.5            | 2.5    | 9.5   |            |
|                                                                                                                                                                                                                                                                                                         | <br>(Right-angled)  | P1IR       | 5.5            | 2.1    | 9.5   |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | P1JR       | 5.5            | 2.1    | 11.0  |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | P1LR       | 5.5            | 2.5    | 9.5   |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | P1MR       | 5.5            | 2.5    | 11.0  |            |
| Barrel Style                                                                                                                                                                                                                                                                                            |                                                                                                      | Type No.   | A              | B      | C     |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      |            | OD             | ID     | L     |            |
| <br>                                                                                                                                  | <br>(Straight)      | P2I        | 5.5            | 2.1    | 9.5   |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | P2J        | 5.5            | 2.1    | 11.0  |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | P2L        | 5.5            | 2.5    | 9.5   |            |
|                                                                                                                                                                                                                                                                                                         | <br>(Right-angled) | P2M        | 5.5            | 2.5    | 11.0  |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | P2IR       | 5.5            | 2.1    | 9.5   |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | P2JR       | 5.5            | 2.1    | 11.0  |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | P2LR       | 5.5            | 2.5    | 9.5   |            |
|                                                                                                                                                                                                                                                                                                         | P2MR                                                                                                 | 5.5        | 2.5            | 11.0   |       |            |
|                                                                                                                                                                                                                                                                                                         | Lock Style                                                                                           |            | Type No.       | A      | B     | C          |
| OD                                                                                                                                                                                                                                                                                                      |                                                                                                      |            |                | ID     | L     |            |
| <br><br><br>SWITCHCRAFT original or equivalent |                                                                                                      | P2S(S761K) | 5.53           | 2.03   | 12.06 |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | P2K(761K)  | 5.53           | 2.54   | 12.06 |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | P2C(S760K) | 5.53           | 2.03   | 9.52  |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | P2D(760K)  | 5.53           | 2.54   | 9.52  |            |
| Center Pin Style                                                                                                                                                                                                                                                                                        |                                                                                                      | Type No.   | A              | B      | C     | D          |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      |            | OD             | ID     | L     | Center Pin |
| <br><br><br>EIAJ equivalent                    |                                                                                                      | P4A        | 5.5            | 3.4    | 11.0  | 1.0        |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | P4B        | 6.5            | 4.4    | 11.0  | 1.4        |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | P4C        | 7.4            | 5.1    | 11.0  | 0.6        |
| Min. DIN 3 Pin with Lock (male)                                                                                                                                                                                                                                                                         |                                                                                                      | Type No.   | Pin Assignment |        |       |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      |            | PIN No.        | Output |       |            |
| <br><br><br>KYCON KPPX-3P equivalent           | R6B                                                                                                  | 1          | +Vo            |        |       |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | 2          | -Vo            |        |       |            |
|                                                                                                                                                                                                                                                                                                         |                                                                                                      | 3          | +Vo            |        |       |            |

| Min. DIN 4 Pin with Lock (male)                                                                                                                                                                                                                                                      | Type No.    | Pin Assignment |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|--------|
|                                                                                                                                                                                                                                                                                      |             | PIN No.        | Output |
|   <br>KYCON KPPX-4P equivalent    | R7B         | 1              | +Vo    |
|                                                                                                                                                                                                                                                                                      |             | 2              | -Vo    |
|                                                                                                                                                                                                                                                                                      |             | 3              | -Vo    |
|                                                                                                                                                                                                                                                                                      |             | 4              | +Vo    |
| Min. DIN 4 Pin with Lock (female)                                                                                                                                                                                                                                                    | Type No.    | Pin Assignment |        |
|                                                                                                                                                                                                                                                                                      |             | PIN No.        | Output |
|   <br>KYCON KPJX-CM-4S equivalent | R7BF        | 1              | +Vo    |
|                                                                                                                                                                                                                                                                                      |             | 2              | -Vo    |
|                                                                                                                                                                                                                                                                                      |             | 3              | -Vo    |
|                                                                                                                                                                                                                                                                                      |             | 4              | +Vo    |
| DIN 5 Pin (male)                                                                                                                                                                                                                                                                     | Type No.    | Pin Assignment |        |
|                                                                                                                                                                                                                                                                                      |             | PIN No.        | Output |
|                                | R1B         | 1              | -Vo    |
|                                                                                                                                                                                                                                                                                      |             | 2              | -Vo    |
|                                                                                                                                                                                                                                                                                      |             | 3              | +Vo    |
|                                                                                                                                                                                                                                                                                      |             | 4              | -Vo    |
|                                                                                                                                                                                                                                                                                      |             | 5              | +Vo    |
| Stripped and tinned leads                                                                                                                                                                                                                                                            | Type No.    | Pin Assignment |        |
|                                                                                                                                                                                                                                                                                      |             | PIN No.        | Output |
|  <br>Length of Land L1 by request<br>(MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm)                  | by customer | 1              | +Vo    |
|                                                                                                                                                                                                                                                                                      |             | 2              | -Vo    |

## ■ Installation Manual

Please refer to : <http://www.meanwell.com/manual.html>