

90WAC-DC Single Output Desktop

GS90 series



Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.91
- No load power consumption<0.5W
- Energy star(CEC) level IV compliant
- Meet energy star (CEC) draft V2.0 level V
- Meet EISA 2007(Energy Independence and Security Act)
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Pass LPS
- Fully enclosed plastic case
- LED indicator for power on
- Approvals: UL / CUL / TUV / BSMI / CCC / CB / FCC / CE

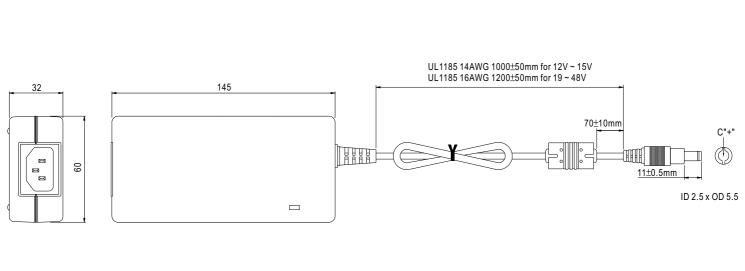
SPECIFICATION

ORDER NO.		GS90A12-P1M	GS90A15-P1M	GS90A19-P1M	GS90A24-P1M	GS90A48-P1M
	SAFETY MODEL NO.	GS90A12	GS90A15	GS90A19	GS90A24	GS90A48
OUTPUT	DC VOLTAGE Note.2	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.) Note.3		100mVp-p	150mVp-p	180mVp-p	240mVp-p
	VOLTAGE TOLERANCE Note.4		±5.0%	±4.0%	±3.0%	±2.0%
		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
		±5.0%	±5.0%	±4.0%	±3.0%	±2.0%
		1000ms, 20ms / 230VAC	1000ms, 20ms / 115			
	HOLD UP TIME (Typ.)	,	ns / 115VAC at full load			
INPUT	,	90 ~ 264VAC 135 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)		PF>0.95 / 115VAC at full lo	ad		
	EFFICIENCY (Typ.)	88%	89%	89%	89.5%	91%
	AC CURRENT	66% 69% 69% 69% 91% 2A / 115VAC 1A / 230VAC 14 / 230VAC				
	INRUSH CURRENT (max.)	70A / 230VAC				
	LEAKAGE CURRENT(max.)	1mA/230VAC				
PROTECTION						
	OVERLOAD	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	105 ~ 135% rated output voltage Protection type : Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	RTH30 > 100°C				
ENVIRONMENT		Protection type : Shut down o/p voltage, re-power on to recover 0 ~ +50°C (Refer to output load derating curve)				
	WORKING TEMP.					
		20% ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03% / °C (0~50°C)				
		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, BSMI CNS14336, CCC GB4943 approved				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
EMC (Note. 7)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
	EMI CONDUCTION & RADIATION					
		Compliance to EN61000-3-2,3, GB17625.1				
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A				
OTHERS	MTBF	348.7Khrs min. MIL-HDBK-217F(25°C)				
	DIMENSION	145*60*32mm (L*W*H)				
	PACKING	0.45Kg; 30pcs/14.5Kg/0.85CUFT				
CONNECTOR	PLUG	Standard type P1M: $2.5\phi + 5.5\phi + 11$ mm, tuning fork type, center positive for stock; Other type available by customer requested				
	CABLE	See page 2 ; Other type available by customer requested				
NOTE	 2.DC voltage: The output volt 3.Ripple & noise are measured 4.Tolerance: includes set up t 5.Line regulation is measured 6.Load regulation is measured 7.The power supply is considered EMC directives. 8. Length of set up time is measured 	 I.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient. 2.DC voltage: The output voltage set at point measure by plug terminal & 50% load. 3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. 4.Tolerance: includes set up tolerance, line regulation, load regulation. 5.Line regulation is measured from low line to high line at rated load. 6.Load regulation is measured from 10% to 100% rated load 7.The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 8. 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. 9. Derating may be needed under low input voltages. Pleas check the derating curve for more details. 				



Case No. 978A Unit:mm

Mechanical Specification



Plug Assignment

Standard plug: P1M (option)

P1M				
P/N	OUTPUT			
CENTER	+			

