

## 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</li>
- 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

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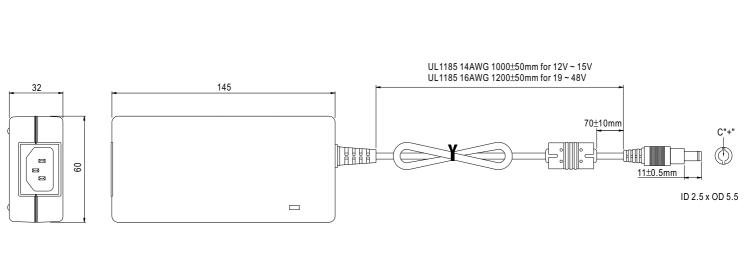
#### SPECIFICATION

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	<ul> <li>2.DC voltage: The output volt</li> <li>3.Ripple &amp; noise are measured</li> <li>4.Tolerance: includes set up t</li> <li>5.Line regulation is measured</li> <li>6.Load regulation is measured</li> <li>7.The power supply is considered</li> <li>EMC directives.</li> <li>8. Length of set up time is measured</li> </ul>	<ul> <li>I.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.</li> <li>2.DC voltage: The output voltage set at point measure by plug terminal &amp; 50% load.</li> <li>3.Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf &amp; 47uf capacitor.</li> <li>4.Tolerance: includes set up tolerance, line regulation, load regulation.</li> <li>5.Line regulation is measured from low line to high line at rated load.</li> <li>6.Load regulation is measured from 10% to 100% rated load</li> <li>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.</li> <li>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.</li> <li>9. Derating may be needed under low input voltages. Pleas check the derating curve for more details.</li> </ul>				



Case No. 978A Unit:mm

### Mechanical Specification



Plug Assignment

Standard plug: P1M (option)

P1M				
P/N	OUTPUT			
CENTER	+			

