

### 90W AC-DC Single Output Desktop

## GS90 series



Features :

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



#### SPECIFICATION

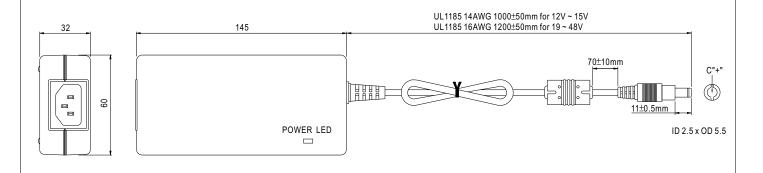
ORDER NO.		GS90A12-P1M	GS90A15-P1M	GS90A19-P1M	GS90A24-P1M	GS90A48-P1M
	SAFETY MODEL NO.	GS90A12	GS90A15	GS90A19	GS90A24	GS90A48
OUTPUT	DC VOLTAGE Note.2	12V	15V	19V	24V	48V
	RATED CURRENT	6.67A	6A	4.74A	3.75A	1.87A
	CURRENT RANGE	0~6.67A	0~6A	0~4.74A	0~3.75A	0~1.87A
	RATED POWER (max.)	80W	90W	90W	90W	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 / 115VAC at full load				
	HOLD UP TIME (Typ.)	20ms / 230VAC 20ms / 115VAC at full load				
INPUT		90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.91 / 230VAC PF>0.95 / 115VAC at full load				
	EFFICIENCY (Typ.)	88%	89%	89%	89.5%	91%
	AC CURRENT	2A/115VAC 1A/230VAC				
	INRUSH CURRENT (max.)	70A/230VAC				
	LEAKAGE CURRENT(max.)	1mA/230VAC				
PROTECTION		110 ~ 150% rated output power				
	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed				
		05 ~ 135% rated output voltage				
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover				
		RTH30 > 100°C				
	OVER TEMPERATURE	R TEMPERATURE Protection type : Shut down o/p voltage, re-power on to recover				
ENVIRONMENT	WORKING TEMP.	$-30 \sim +50^{\circ}$ (Refer to output load derating curve)				
		20% ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03% / °C (0~50°C)				
	VIBRATION	±0.03% / C (0~50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC (Note. 7)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, BSMI CNS14336, J60950-1 (except for 48V) approved				
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH				
	EMI CONDUCTION & RADIATION					
	HARMONIC CURRENT	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/14.05Kg/1CUFT				
CONNECTOR	PLUG	Standard type P1M: 2.50 * 5.50 * 11mm, tuning fork type, center positive for stock : Other type available by customer requested				
	CABLE	See page 2; Other type available by customer requested				
NOTE	<ol> <li>All parameters are specifie</li> <li>DC voltage: The output vol</li> <li>Ripple &amp; noise are measure</li> <li>Tolerance: includes set up</li> <li>Line regulation is measure</li> <li>Load regulation is measure</li> <li>The power supply is considered.</li> <li>MC directives.</li> <li>Length of set up time is measure</li> </ol>	ecified at 230VAC input, rated load, 25°C 70% RH ambient. ut voltage set at point measure by plug terminal & 50% load. easured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. et up tolerance, line regulation, load regulation. asured from low line to high line at rated load. asured from 10% to 100% rated load considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. ded under low input voltages. Pleas check the derating curve for more details.				



# **GS90** series

#### Mechanical Specification





Plug Assignment

Standard plug: P1M (option)

P1M				
P/N	OUTPUT			
CENTER	+			

