

#### EN: This Datasheet is presented by the manufacturer.

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## 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 / CCC / CB / FCC / CE
- Class I power ( with earth pin)
- Pass LPS
- LED indicator for power on
- No load power consumption<0.5W</li>
- Meet EISA 2007(Energy Independence and Security Act)
- 2 years warranty



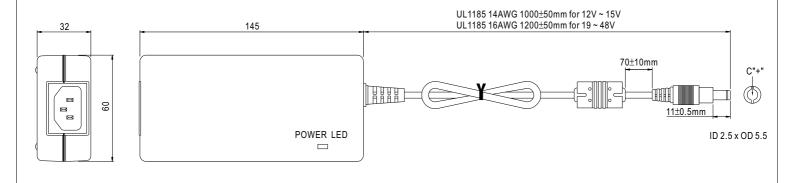
### SPECIFICATION

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 / 23					
	INRUSH CURRENT (max.)	70A/230VAC					
	LEAKAGE CURRENT(max.)	1mA/240VAC					
PROTECTION		110 ~ 150% rated output power					
	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed					
		105 ~ 135% rated output voltage					
	V OVER VOLTAGE Protection type : Shut down o/p voltage, re-power on to recover						
	RTH30 > 100°C						
	OVER TEMPERATURE	EMPERATURE Protection type : Shut down o/p voltage, re-power on to recover					
ENVIRONMENT	WORKING TEMP.	-30 ~ +50°C (Refer to output load derating curve)					
	WORKING HUMIDITY	20% ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03% / °C (0~50°C)					
	VIBRATION	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, CCC GB4943 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	Compliance to EN55022 class B, FCC PART 15 / CISPR22 class B, CNS13438 class B, GB9254 class B					
	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					
	MTBF	348.7Khrs min. MIL-HDBK-217F(25°C)					
OTHERS	DIMENSION	145*60*32mm (L*W*H)					
	PACKING	0.45Kg; 30pcs/14.05Kg/1CUFT					
CONNECTOR	PLUG	Standard type P1M: 2.5 $\phi$ * 5.5 $\phi$ * 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>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>EMC directives.</li> <li>Length of set up time is measure</li> </ol>	ied at 230VAC input, rated load, 25°C 70% RH ambient. oltage set at point measure by plug terminal & 50% load. ured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. p tolerance, line regulation, load regulation. red from low line to high line at rated load. ured from 10% to 100% rated load sidered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the neasured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. under low input voltages. Pleas check the derating curve for more details.					



### Mechanical Specification

Case No. 978A Unit:mm



Plug Assignment

Standard plug: P1M (option)

P1M			
P/N	OUTPUT		
CENTER	+		

