



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 / PSE / 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
- ErP step2 compliant
- NRCan compliant
- Meet EISA 2007 (Energy Independence and Security Act)













SPECIFICATION

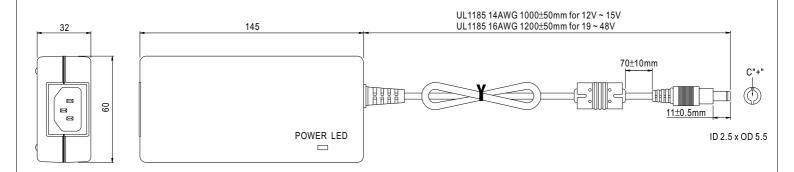
ORDER NO.		GS90A12-P1M	GS90A15-P1M	GS90A19-P1M	GS90A24-P1M	GS90A48-P1M	
ОИТРИТ	SAFETY MODEL NO.	GS90A12	GS90A15	GS90A19	GS90A24	GS90A48	
	DC VOLTAGE Note.2	12V	15V	19V	24V	48V	
	RATED CURRENT	6.67A	6A	4.74A	3.75A	1.87A	
	CURRENT RANGE	0 ~ 6.67A	0 ~ 6A	0 ~ 4.74A	0 ~ 3.75A	0 ~ 1.87A	
	RATED POWER (max.)	80W	90W	90W	90W	90W	
	RIPPLE & NOISE (max.) Note.3	80mVp-p	100mVp-p	150mVp-p	180mVp-p	240mVp-p	
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±4.0%	±3.0%	±2.0%	
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION Note.6	±5.0%	±5.0%	±4.0%	±3.0%	±2.0%	
	SETUP, RISE TIME Note.8	1000ms, 20ms / 230VAC	1000ms, 20ms /	115VAC at full load			
	HOLD UP TIME (Typ.)	20ms / 230VAC 20ms / 115VAC at full load					
INPUT	VOLTAGE RANGE Note.9	90 ~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	PF>0.91 / 230VAC	PF>0.95 / 115VAC at fu	ıll load			
	EFFICIENCY (Typ.)	88%	89%	89%	89.5%	91%	
	AC CURRENT (Typ.)	2A / 115VAC 1A / 23	0VAC				
	INRUSH CURRENT (max.)	70A / 230VAC					
	LEAKAGE CURRENT(max.)	1mA / 240VAC					
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℃					
		Protection type: Shut down o/p voltage, re-power on to recover					
ENVIRONMENT	WORKING TEMP.	-30 ~ +50°C (Refer to "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 STANDARDS	UL60950-1, TUV EN60950-1, BSMI CNS14336, CCC GB4943, J60950-1(except for 48V) approved					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
(Note. 7)	EMC EMISSION	Compliance to EN55022 class B, EN61000-3-2,3, FCC PART 15 / CISPR22 class B, CNS13438 class B, GB9254 class B, GB17625.1					
	EMC 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℃)					
	DIMENSION	145*60*32mm (L*W*H)					
	PACKING	0.45Kg; 30pcs/14.05Kg/1CUFT					
ONNEGTOR	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					
CONNECTOR	CABLE	See page 2; Other type available by customer requested					
NOTE	DC voltage: The output vol Ripple & noise are measur Tolerance: includes set up	ed at 230VAC input, rated load, 25°C 70% RH ambient. Itage set at point measure by plug terminal & 50% load. The detailed of the set of the s					

- 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 as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the 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.



■ Mechanical Specification

Case No. 978A Unit:mm



■ Plug Assignment

Standard plug: P1M

P1M				
P/N	OUTPUT			
CENTER	+			

