



12W AC-DC Industrial Adaptor

GS12U series



■ Features :

- Universal AC input / Full range
- No load power consumption < 0.3W
- Energy efficiency Level V
- Comply with EISA 2007
- 2 pole USA plug
- Class II power (without earth pin)
- Protections: Short circuit / Overload / Over Voltage / Over temperature
- Pass LPS
- Fully enclosed plastic case
- 2 years warranty

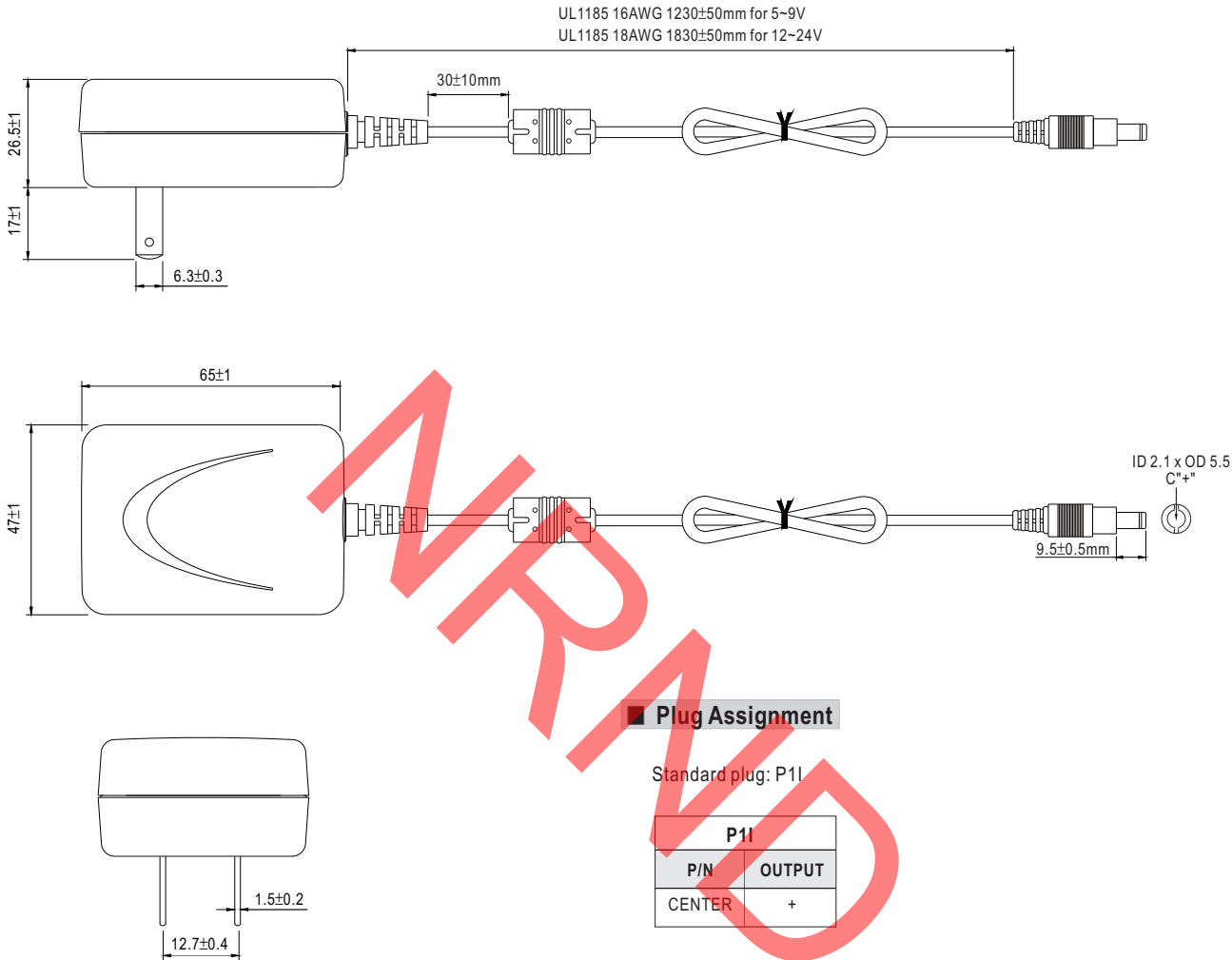


SPECIFICATION

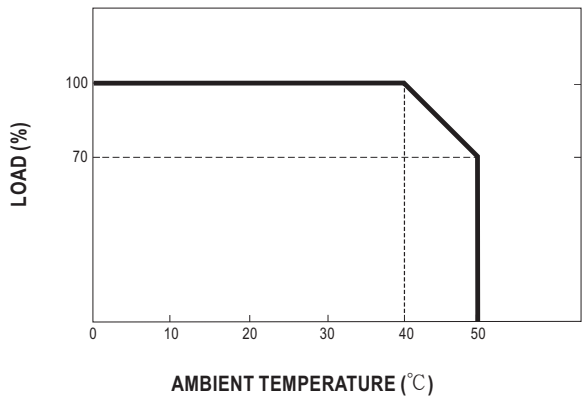
ORDER NO.		GS12U05-P1I	GS12U07-P1I	GS12U09-P1I	GS12U12-P1I	GS12U15-P1I	GS12U18-P1I	GS12U24-P1I
OUTPUT	SAFETY MODEL NO.	GS12U05	GS12U07	GS12U09	GS12U12	GS12U15	GS12U18	GS12U24
	DC VOLTAGE	5V	7.5V	9V	12V	15V	18V	24V
	RATED CURRENT	2.0A	1.6A	1.33A	1.0A	0.8A	0.67A	0.5A
	CURRENT RANGE	0 ~ 2.0A	0 ~ 1.6A	0 ~ 1.33A	0 ~ 1.0A	0 ~ 0.8A	0 ~ 0.67A	0 ~ 0.5A
	RATED POWER	10W	12W	12W	12W	12W	12.06W	12W
	RIPPLE & NOISE (max.) Note.2	75mVp-p	90mVp-p	90mVp-p	120mVp-p	150mVp-p	180mVp-p	200mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%	±4.0%	±4.0%	±3.0%	±3.0%	±3.0%	±3.0%
	LINE REGULATION Note.4	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION Note.5	±5.0%	±4.0%	±4.0%	±3.0%	±3.0%	±2.0%	±2.0%
SETUP, RISE, HOLD UP TIME		500ms, 20ms, 30ms/230VAC 500ms, 20ms, 10ms/115VAC at full load						
INPUT	VOLTAGE RANGE	90 ~ 264VAC 135 ~ 370VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY (Typ.)	76%	78.5%	78.5%	78.5%	80%	80%	80.5%
	AC CURRENT	0.31A / 115VAC 0.16A / 230VAC						
	INRUSH CURRENT (max.)	COLD START 25A / 115VAC 45A / 230VAC						
	LEAKAGE CURRENT (max.)	0.25mA / 240VAC						
PROTECTION	OVERLOAD	>105% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed						
	OVER VOLTAGE	115% ~ 135% Protection type : Clamp by zener diode						
	OVER TEMPERATURE Note.6	U1 Tj 140℃ typically (U1) Detect on main control IC Protection type : Shut down o/p voltage, recovers automatically after temperature goes down						
ENVIRONMENT	WORKING TEMP.	0 ~ +50℃ (Refer to "Derating Curve")						
	WORKING HUMIDITY	20% ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 40℃)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes						
SAFETY & EMC	SAFETY STANDARDS	UL60950-1, CSA22.2, BSMI CNS14336, EAC TP TC 004 approved						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH						
	EMC EMISSION	Compliance to FCC PART 15 / CISPR22 class B, CNS13438 class B						
OTHERS	MTBF	1414.6Khrs min. MIL-HDBK-217F (25℃)						
	DIMENSION	65*47*26.5mm (L*W*H)						
	PACKING	0.15Kg ; 100pcs / 16Kg / CARTON						
CONNECTOR	PLUG	See page 2 ; Other type available by customer requested						
	CABLE	See page 2 ; Other type available by customer requested						
NOTE	1.All parameters are specified at 115VAC input, rated load, 25℃ 70% RH ambient. 2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. 3.Tolerance: includes set up tolerance, line regulation, load regulation. 4.Line regulation is measured from low line to high line at rated load. 5.Load regulation is measured from 10% to 100% rated load. 6.The over temperature protection (OTP) is the built-in function of the control IC (U1). The activating level described above is based on the specification provided by the IC manufacturer.							

■ Mechanical Specification

Unit:mm



■ Derating Curve



■ Static Characteristics(24V)

