

Model: GP-OS60N Series

■ Features

- Universal AC Input 90~264VAC.
- 4" x 2" Miniature Size.
- Operation from -20°C ~ 50°C Full Load.
- Protections: SCP / OVP / OLP.
- No Load Power Consumption < 0.75W.
- 105°C Main Electrolytic Capacitor.

■ Approvals



■ Size

101.6 x 50.8 x 30 mm(L x W x H)



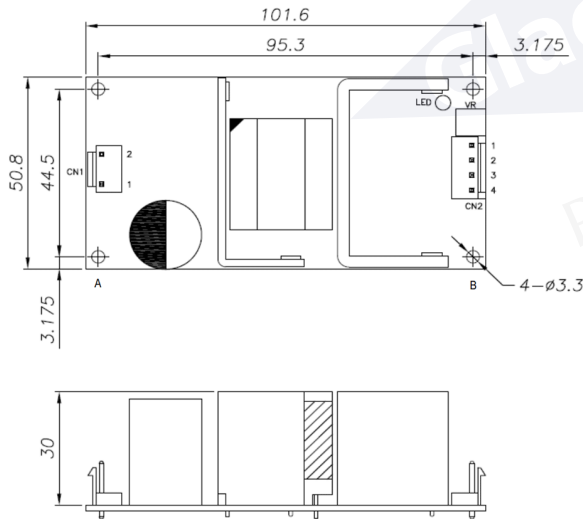
■ Specifications

Model No.		GP-OS60N-3.3	GP-OS60N-05	GP-OS60N-12	GP-OS60N-15	GP-OS60N-24	GP-OS60N-48
Output	DC Voltage	3.3V	5V	12V	15V	24V	48V
	Rated Current	0-10A	0-10A	0-5A	0-4A	0-2.5A	0-1.25A
	Rated Power	33W	50W	60W	60W	60W	60W
	Ripple & Noise (Max.) Note.2	80mV	80mV	120mV	150mV	200mV	300mV
	Efficiency (Typ.)	76%	80%	83%	84%	85%	86%
	Voltage Adjustment Range	3.15-3.45V	4.8-5.2V	11.4-12.6V	14.2-16V	23-25V	45-51V
	Voltage Tolerance Note.3	±2%	±2%	±2%	±2%	±1%	±1%
	Rise Time	<30ms at full load.					
	Set up time (Max.)	500ms/230Vac, 500ms/115Vac, at cold first start.					
	Hold Time (Typ.)	60ms/230Vac, 13ms/115Vac at full load.					
Input	Voltage Range	90Vac ~ 264Vac or 127~370Vdc.					
	Frequency Range	47 ~ 63 Hz.					
	AC Current (Max.)	1.5A at 115Vac / 1A at 230Vac.					
	Inrush Current (Max.)	30A at 115Vac / 60A at 230Vac (COLD START).					
	Leakage Current	<0.75mA / 240Vac.					
Protections	Over Load	115~150% rated output power. Type: Hiccup mode, Recovers automatically after fault condition is removed.					
	Short Circuit	Type: Hiccup mode, Recovers automatically after fault condition is removed.					
	Over Voltage	3.8-4.3V	5.75-6.5V	13.5-15V	16.9-18.75V	27-30V	54-60V
Environment	Operation Temp.	-20°C ~50°C full load, 50°C ~70°C (Refer to output load derating curve).					
	Operation Humidity	20% ~ 95% RH non-condensing.					
	Storage Temp.	-40 ~ +80°C.					
	Storage Humidity	10% ~ 90% RH.					
	Vibration	10~500 Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes.					
Safety & EMC	Withstand Voltage	I/P - O/P: 3 KVAC, I/P - FG: 1.5KVAC, O/P - FG: 0.5KVAC.					
	Isolation Resistance	100M ohms / 500Vdc at 25°C : I/P-O/P, I/P-FG, O/P-FG.					
	EMI Conduction & Radiation	Compliance to EN55022 class B, CISPR22 class B.					
	Harmonic Current	Compliance to EN61000-3-2,-3.					
	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11 Light industry level, criteria A.					
Others	MTBF	450K hour's min. MIL-HDBK-217F (25°C).					
	Dimension(L x W x H)	101.6 x 50.8 x 30mm; 114.8g/pcs					

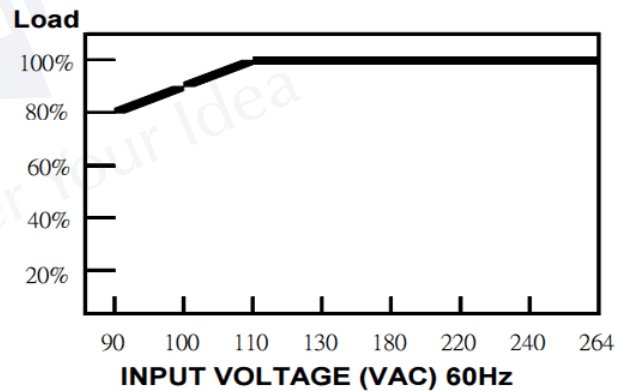
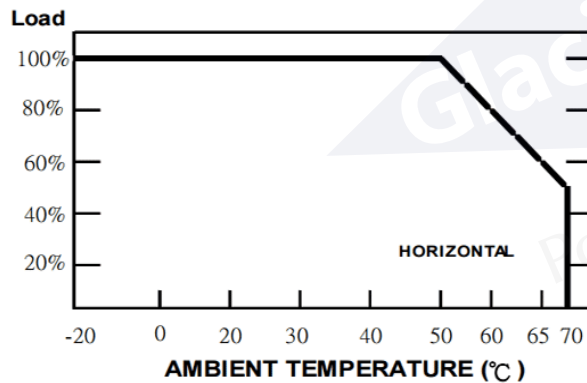
Note

1. All specifications not specially mentioned are measured at 230Vac and 25°C ambient temperature.
2. Ripple & Noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parallel capacitor.
3. Voltage Tolerance: includes line regulation, load regulation and set-up tolerance.
4. 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.
5. Mounting Holes A, B must be grounded for EMI and Safety purposes.

■ Mechanical Specification



■ Derating Curve



◆ AC Input Connector (CN1): WST M3-I39606S or Equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	WST P3-I39606 or Equivalent	WST I39606PS-2 or Equivalent
2	AC/L		

◆ DC Output Connector (CN2): WST M4-I39606 or Equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2	+V	WST P4-I39606 or Equivalent	WST I39606PS-2 or Equivalent
3,4	-V		