

300W AC-DC Enclosed Power Supply (GRT-G300P SERIES)



■ Features :

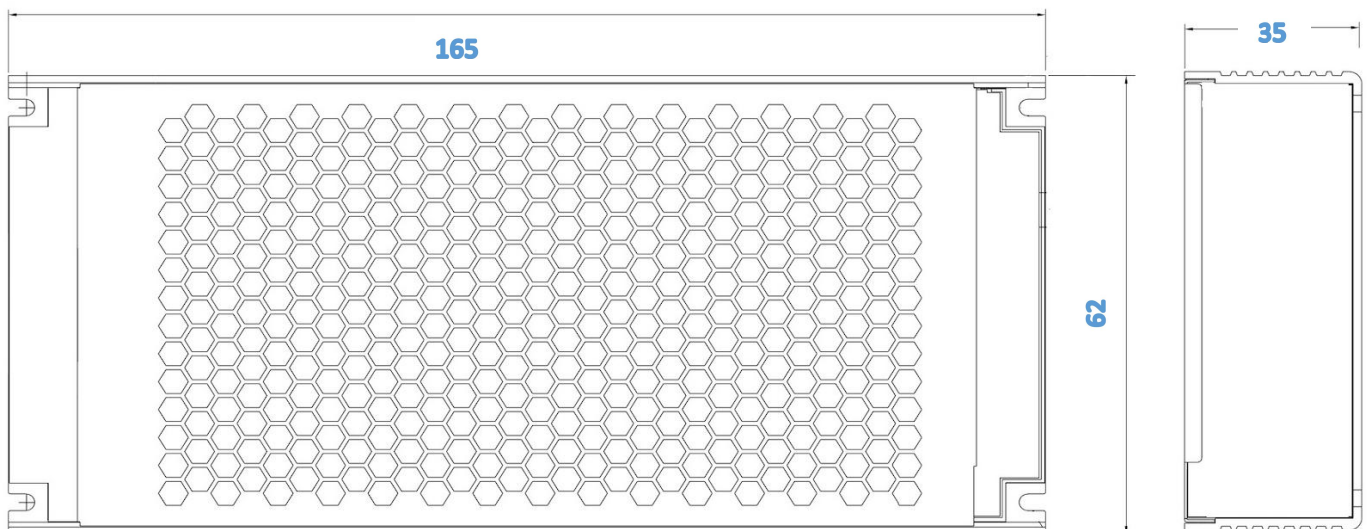
- Universal AC input / Full range(90~264VAC)
- Protections: Short circuit / Over current / Over voltage
- Built-in active PFC function
- Cooling by free air convection
- LED indicator for power on
- Fixed Output current level
- 100% full load burn-in test&High reliability
- Standby Power<0.5W,fully compliance with EU ERP& CoC version 5
- Suitable for all kinds of equipments
- 5 years warranty

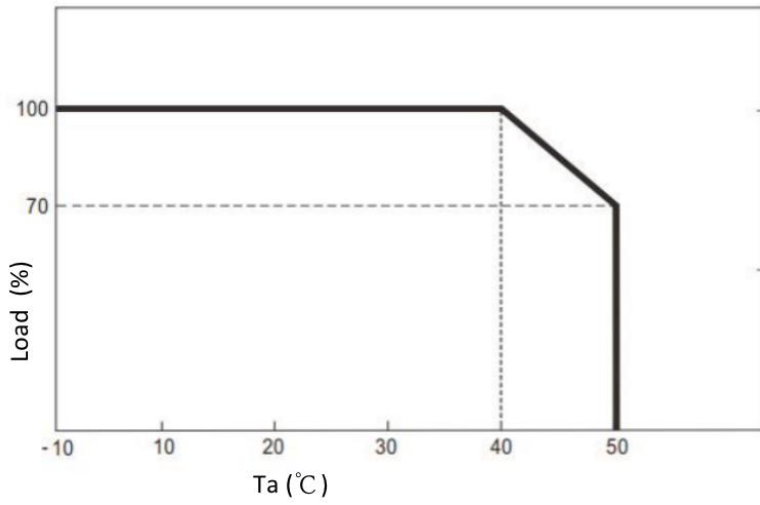
■ Specification

MODEL	GRT-G300P-5		GRT-G300P-12		GRT-G300P-24		GRT-G300P-36		GRT-G300P-48		
OUTPUT	DC VOLTAGE	5V		12V		24V		36V		48V	
	RATED CURRENT	60A		25A		12.5A		8.33A		6.25A	
	RATED POWER	300W		300W		300W		300W		300W	
	RIPPLE & NOISE (max.) Note.2	50mVp-p		150mVp-p		240mVp-p		240mVp-p		300mVp-p	
	VOLTAGEADJ. RANGE	By built-in potentiometer, SVR									
		4.75 ~ 5.5V		12~14.4V		24~28.8V		36~43.2V		48~57.6V	
	VOLTAGE TOLERANCE Note.3	±2.0%		±1.0%		±1.0%		±1.0%		±1.0%	
	LINE REGULATION	±0.5%		±0.5%		±0.5%		±0.5%		±0.5%	
LOAD REGULATION	±1.0%		±0.5%		±0.5%		±0.5%		±0.5%		
SETUP, RISE TIME Note.4	1000ms, 50ms/230VAC 1000ms,50ms/115VAC at full load										
HOLD UP TIME (Typ.)	12ms/230VAC		12ms/115VAC								
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC		250 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.) Note.4	PF≥0.95/230VAC		PF≥0.99/115VAC at full load							
	EFFICIENCY (Typ.)	94%				95%		95.5%		96%	
	AC CURRENT (Typ.)	10.1A/115VAC		5.3A/230VAC							
	INRUSH CURRENT (Typ.)	Cold start 20A/115VAC		40A/230VAC							
	LEAKAGE CURRENT	<0.75mA/ 240VAC									
PROTECTION	OVERLOAD	105~120% rated output power									
		Protection type: Constant current limiting with delay shutdown after 3 seconds, re-power on to recover									
	SHORT CIRCUIT	Protection type: Constant current limiting with delay shutdown after 3 seconds, re-power on to recover									
	OVER VOLTAGE	5.6 ~ 6.75V		14.5 ~ 16V		29 ~ 33V		43.5 ~ 49V		59 ~ 66V	
		Protection type: Shut down O/P voltage, re-power on to recover									
OVER TEMPERATURE	Protection type: Shut down O/P voltage, recovers automatically after temperature goes down										

FUNCTION	OUTPUT VOLTAGE	Adjustment of output voltage is allowable to 50 ~ 120% of nominal output		
	OUTPUT CURRENT	Adjustment of constant current level is allowable to 20 ~ 100% of rated		
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes		
SAFETY & EMC (Note.6)	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved; design refer to BS EN/EN61558-1, BS EN/EN60335-1		
	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC I/P-FG: 2KVAC O/P-FG: 1.25KVAC		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25°C / 70%RH		
	EMC EMISSION	Parameter	Standard	Test Level / Note
		Conducted	BS EN/EN55032 (CISPR32)	Class B
		Radiated	BS EN/EN55032 (CISPR32)	Class B
		Harmonic Current	BS EN/EN61000-3-2	Class A
	EMC IMMUNITY	Voltage Flicker	BS EN/EN61000-3-3	----
		BS EN/EN55035, BS EN/EN61000-6-2		
		Parameter	Standard	Test Level / Note
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact
		Radiated	BS EN/EN61000-4-3	Level 3
		EFT / Burst	BS EN/EN61000-4-4	Level 3
Surge		BS EN/EN61000-6-2	2KV/Line-Line 4KV/Line-Earth	
Conducted		BS EN/EN61000-4-6	Level 3	
OTHERS	MTBF	662.3K hrs min. Telcordia SR-332 (Bellcore) ; 69.8K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	165*62*35mm (L*W*H)		
	PACKING	1.5kg ; 8pcs/14.9kg/0.74CUFT		
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>4. Derating may be needed under low input voltages. Please check the derating curve and Static characteristics for more details.</p> <p>5. PV/PC functions when users do not use SVR.</p> <p>6. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.greatpwr.com)</p>			

Dimension(mm)



■ Derating Curve**■ Disclaimer**

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.