



### ■ Features:

- Universal AC input/ Full range
- Built-in active PFC function,PF>0.95
- Built-in cooling Fan ON-OFF control
- Output protections: OLP/OVP/OTP/SCP
- All using 105℃ long life electrolytic capacitors.
- Build-in remote sense function
- Build-in remote ON-OFF control
- 3 years warranty

### SPECIFICATION

MODEL		GPF-U500S12	GPF-U500S15	GPF-U500S24	GPF-U500S27.5	GPF-U500S48	
OUTPUT	DC Output	12V	15	24V	27.5V	48V	
	Rated Current	40A	33A	20A	18A	10A	
	Current Range	0~40A	0~33A	0~20A	0~18A	0~10A	
	Ripple and Noise     Note 2	<120mV	<150mV	<240mV	<270mV	<480mV	
	Voltage ADJ.   Range	11.2-14.2V	13.1-17.3V	20.9-27.2V	23.2-31.7V	44.2-54.1V	
	Voltage Accuracy	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	
	Line Regulation	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	Load Regulation	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	Set-up Time	<4.0S (115Vac input, Full load);   <2.0S (230Vac input, Full load)					
	Hold up Time	>20mS(230Vac input, Full load)					
	Temperature Coefficient	±0.03%/℃					
	Overshoot and Undershoot	<5.0%					
INPUT	Voltage Range		90Vac~264Vac;   130Vdc---370Vdc				
	Frequency Range		47Hz~63Hz				
	Power Factor(Typical)		PF> 0.99/115VAC       PF> 0.95/230VAC				
	Efficiency	115Vacinput	78%	80%	81%	80%	82%
	( Typical)	230Vacinput	82%	82%	86%	86%	85%
	AC Current (max.)		7.3A	7.5A	7.5A	7.5A	7.3A
	Inrush Current (Typical)		<20A@115Vac       <40A@230Vac       Cold start				
Leakage Current		Input—output:<0.25mA       Input—PG:<3.5mA					
PROTECTION	Over Load		105%~140% of rated output current, constant current limiting,auto recover				
	Over Voltage		115%~150% of rated output voltage, shut down				
	Over Temperature		95℃±5℃(detect on heatsink of power transistor);shut down,auto recover after the temperature goes down				
	Fan ON/OFF Control		Output load>55% rating or inside temperature >65℃, FAN ON				
ENVIRONMENT	Operating amb. Temp. & Hum.		-10℃~60℃;   20%~90%RH   No condensing(refer to the derating curve)				
	Storage Temp. & Hum.		-25℃~85℃;   10%~95%RH   No condensing				
SAFETY&EMC Note 3	Safety Standards		UL60950-1; EN60950-1: 2006				
	Withstand Voltage		Primary-Secondary:3.0KVac;   ≤10mA .Primary-PG:1.5KVac;   ≤10mA. Secondary-PG:0.5KVDC;≤10mA.				
	Isolation Resistance		≥50M ohms				
	EMI Conduction&Radiation		Compliance to EN55022 ClassA				
	Harmonic Current		Compliance to EN61000-3-2,17625.1-2003				
	EMS Immunity		Compliance to EN61000-4-2,3,4,5,6,8,11;ENV50204,light industry level, criteria A				
OTHERS	MTBF (MIL-HDBK-217F)		More than 100,000Hrs (25℃, Full load)				
	Dimension   (L*W*H)		170×117×94mm				
	Packing		6PCS/CTN, 13.2KGS, 0.04CBM				
	Cooling method		Cooling by forced air (built-in DC fan)				
NOTE	1. All parameters NOT specially mentioned are measured at 230Vac rated input, rated load and 25℃ of ambient temperature. 2. Measured at 20MHz of bandwidth by using a 12” twisted pair-wire terminated with a 0.1 uF & 47uF parallel capacitor. 3. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives. 4. We offer accessories for Din-35 rail bar. Please contact sales staff for details.						

## Mechanical Specification

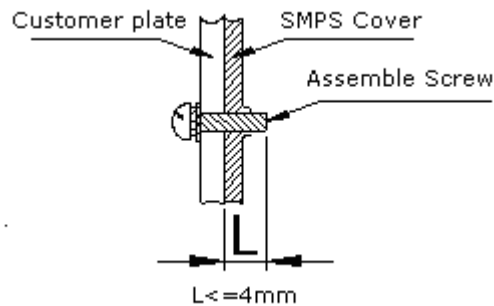
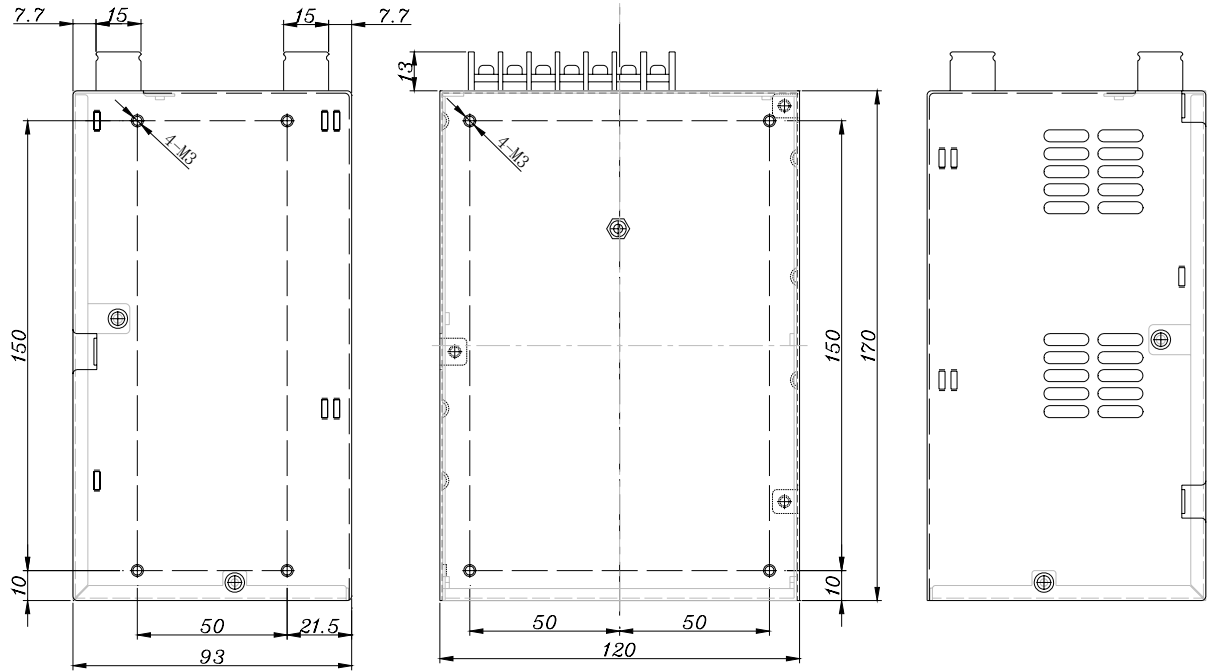
Unit: mm

### Remote Sense Function

If the distance between power supply and devices is very far, there is voltage loss on the connection cables. In this situation, Customer can remove the short circuit pin between +S +V and -S -V, and connect +S -S to device directly. Then power supply will compensate the voltage loss automatically.

### Remote ON OFF Function

RC=0 Power Supply Work (RC connect GND as default)  
RC=1 or no connection No Output



## Derating Curve

