

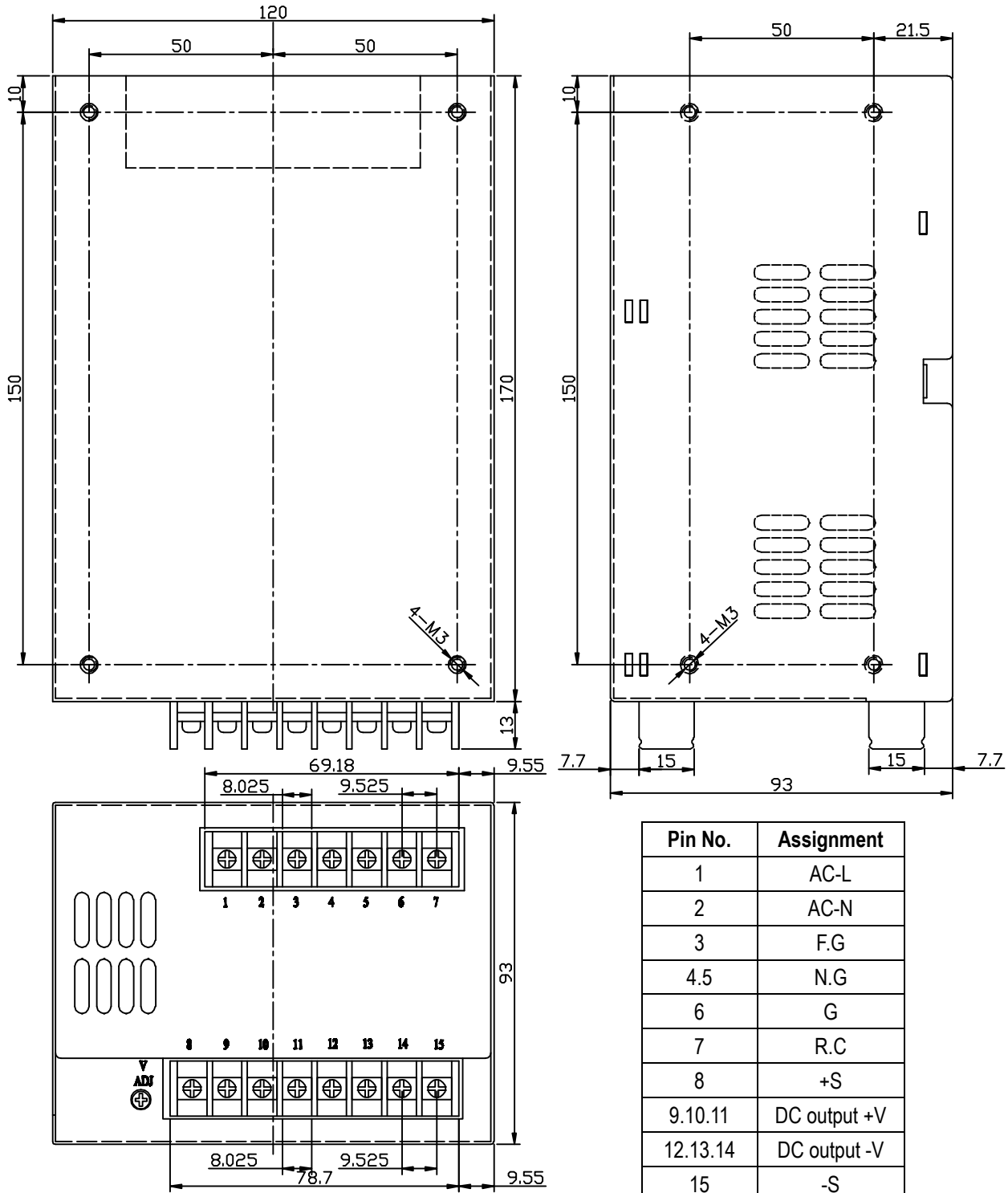
**Features:**

- 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°C long life electrolytic capacitors.
- Built-in Remote Sense Function
- Built-in Remote ON-OFF Control



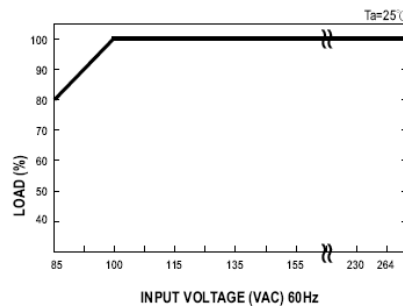
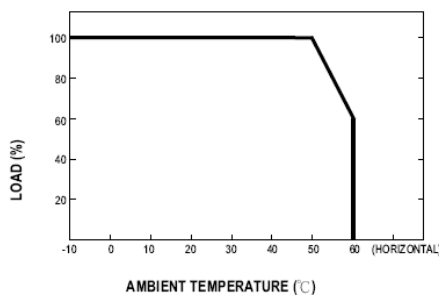
Model	QGPF-U500S12	QGPF-U500S15	QGPF-U500S24	QGPF-U500S27.5	QGPF-U500S48	
Output Characteristics						
DC Output	12V	15V	24V	27.5V	48V	
Rated Current	40A	33A	20A	18A	10A	
Current Range	0~40A	0~33A	0~20A	0~18A	0~10A	
Ripple and Noise	<120mV	<150mV	<240mV	<270mV	<480mV	
Voltage ADJ. Range	11.2V~14.2V	13.1V~17.3V	20.9V~27.2V	23.2V~31.7V	44.2V~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%/°C					
Overshoot and Undershoot	<5.0%					
Input Characteristics						
Voltage Range	90VAC~264VAC, 130VDC~370VDC					
Frequency Range	47Hz-63Hz					
Power Factor (Typical)	PF>0.99/115VAC PF>0.95/230VAC					
Efficiency (Typical)	115VAC Input	78%	80%	81%	80%	82%
	230VAC Input	82%	82%	86%	86%	85%
AC Current (max)	7.3A	7.5A	7.5A	7.5A	7.3A	
Inrush Current (Typical)	<20A@115VAC Cold start <40A@230VAC Cold Start					
Leakage Current	Input-Output: <0.25mA Input-PG: <3.5mA					
Protection						
Over Temperature (OTP)	95°C ± 5°C (heatsink of power transistor); shut down, auto recover after the temperature decreases					
Over Load (OLP)	105%~140% of rated output current, constant current limiting, auto recovery					
Over Voltage (OVP)	115%~150% of rated output voltage, shut down, re-power on to recover					
Short Circuit (SCP)	Long-term mode, auto recovery					
Fan ON/OFF Control	Output Load >55% rating or inside temperature >65°C, FAN ON					
Remote ON/OFF Control	R.C./G: Short = power on; Open = power off					
Environmental Characteristics						
Operating Amb. Temp. & Hum	-10°C~60°C; 20%~90% RH Non-Condensing					
Storage Temp. & Hum	-25°C~85°C; 10%~95% RH Non-Condensing					
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 Class A					
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					
General Characteristics						
MTBF (MIL-HDBK-217F)	More than 100,000Hrs (25°C, Full load)					
Dimension (LxWxH)	170x117x94mm					
Packing	6PCS/CTN. G.W: 13.2kgs					
Cooling Method	Cooling by forced air (built-in DC fan)					

MECHANICAL SPECIFICATIONS



Pin No.	Assignment
1	AC-L
2	AC-N
3	F.G
4.5	N.G
6	G
7	R.C
8	+S
9.10.11	DC output +V
12.13.14	DC output -V
15	-S

DERATING CURVE



UNIT: mm