

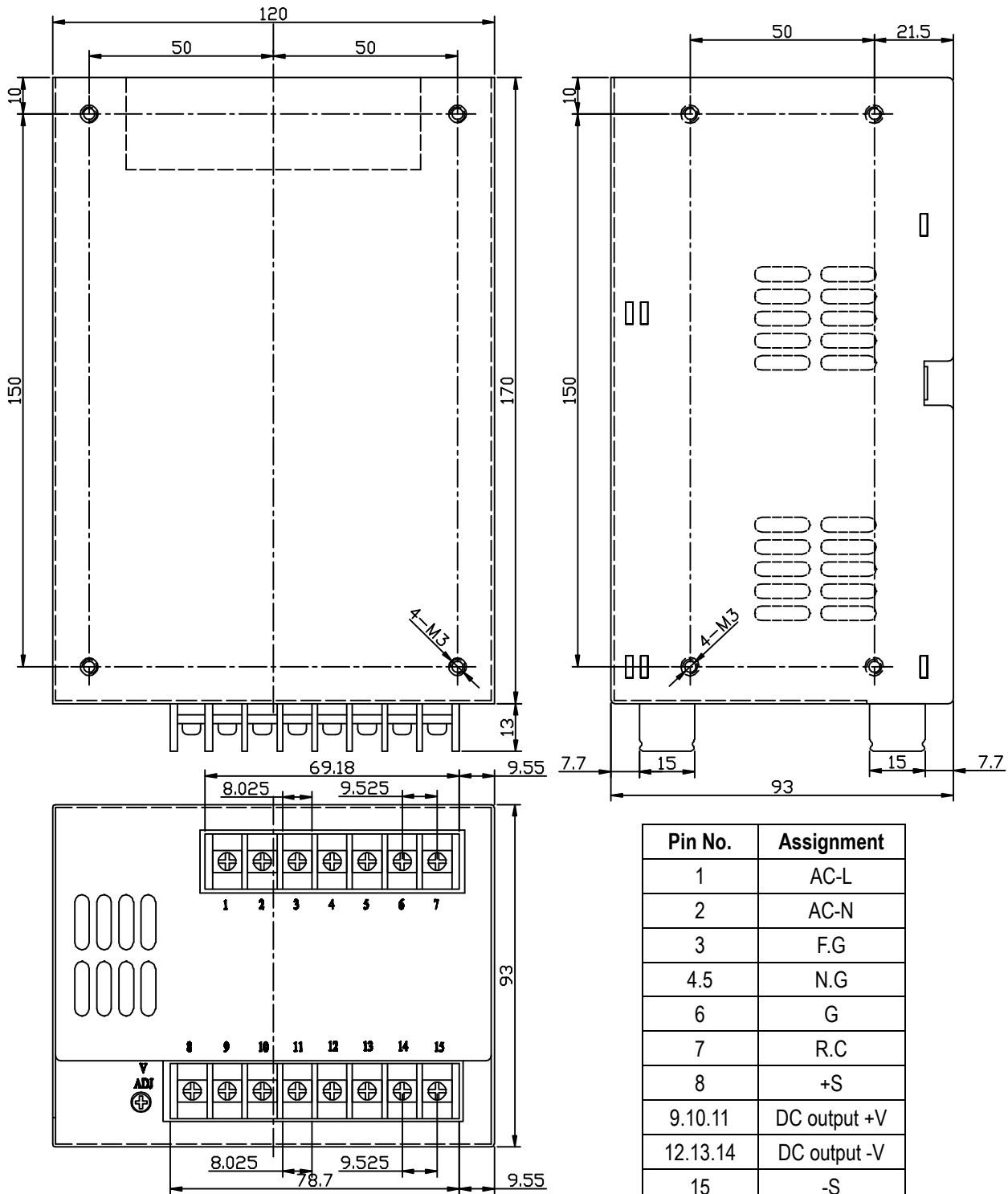
**Features:**

- 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

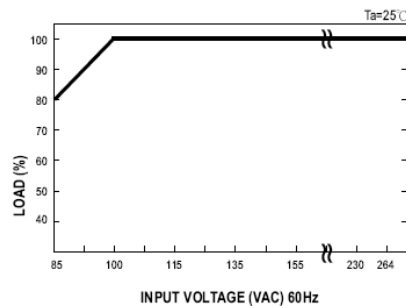
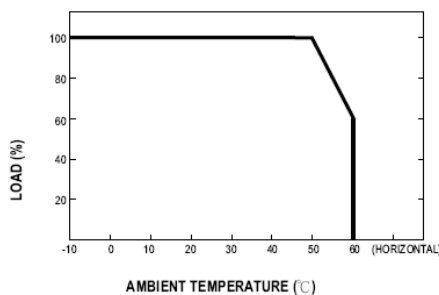


Model		QGPF-U500S12	QGPF-U500S15	QGPF-U500S24	QGPF-U500S27.5	QGPF-U500S48
Output Characteristics						
DC Output		12V	15V	24V	27.5V	48V
Rated Current		40A	33A	20A	18A	10A
Current Range		0~40A	0~33A	0~20A	0~18A	0~10A
Ripple and Noise		<120mV	<150mV	<240mV	<270mV	<480mV
Voltage ADJ. Range		11.2V~14.2V	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



DERATING CURVE



UNIT: mm