

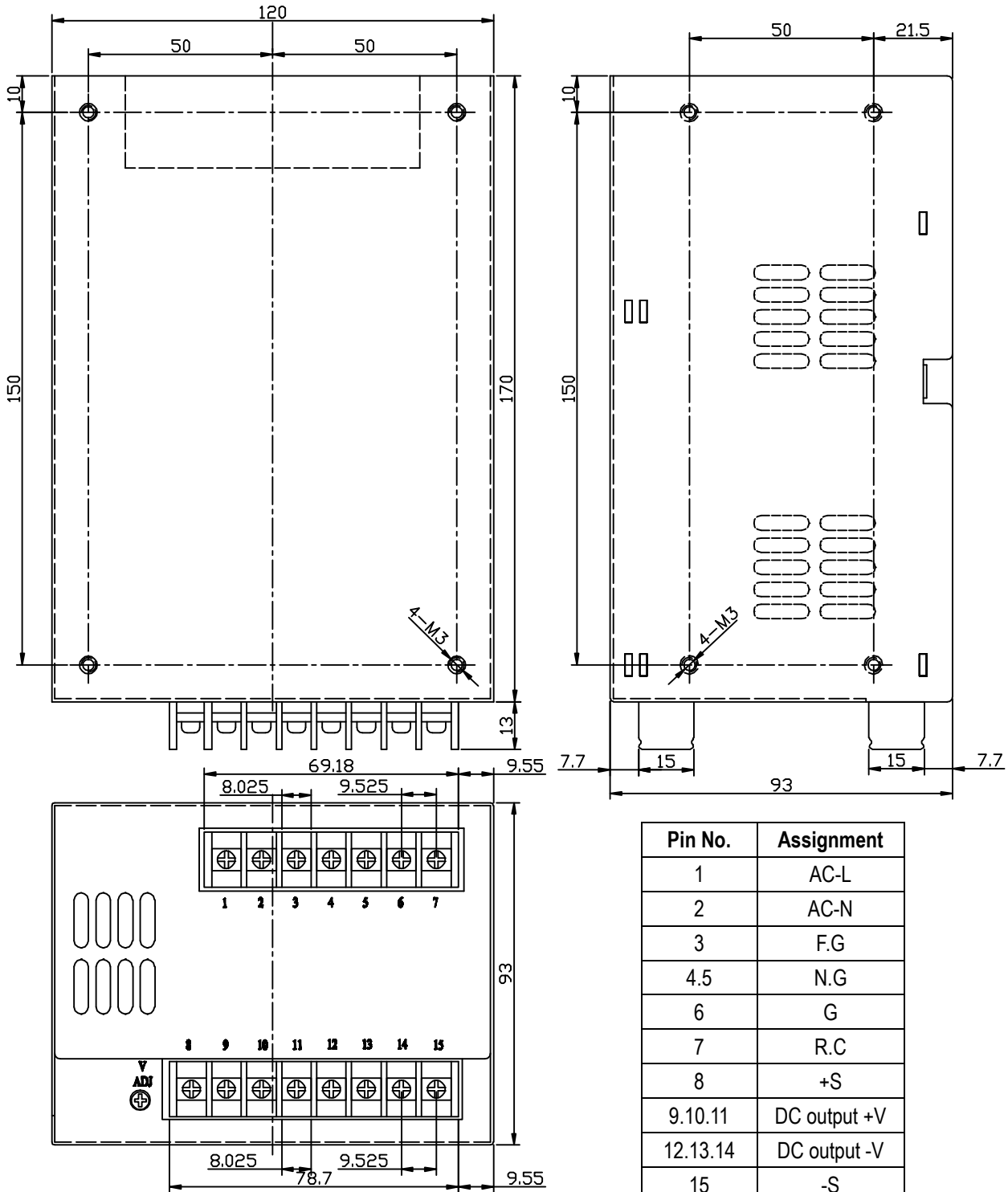
**Features:**

- 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

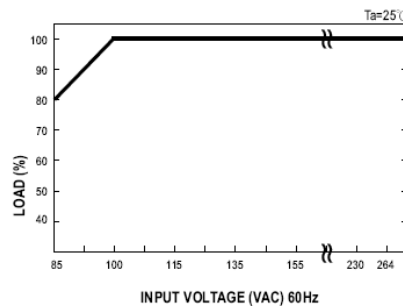
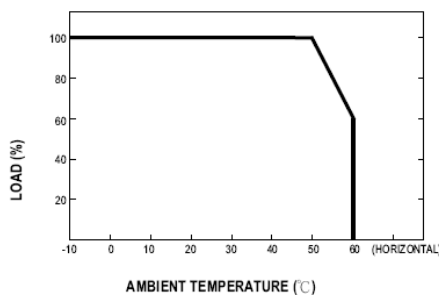


| Model | QGPF-U500S12 | QGPF-U500S15 | QGPF-U500S24 | QGPF-U500S27.5 | QGPF-U500S48 | |
|--------------------------------------|--|--------------|--------------|----------------|--------------|-----|
| Output Characteristics | | | | | | |
| DC Output | 12V | 15V | 24V | 27.5V | 48V | |
| Rated Current | 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