



## AC/DC 120W Open Frame Power Supply



### Features

- Compact size with ATX output
- Supports fanless for 85W
- Input Voltage Range: 90 ~ 260V
- Output Voltage: 5V / 3.3V / 12V / -12V / 5VSB
- Safety Standard: UL, CB, TUV, IEC 60950-1, EN 60950-1
- EMI Standards: FCC Class B / CISPR22 Class B

### Input

- 90 ~ 260V

### Efficiency

- 70% minimum at full load

### Hold Up Time

- 16ms minimum at full load, 115Vac input

### Remote On/Off

- PSON compatible signal

### Power Good

- TTL signal compatible power good signal. Turn-on delay 100 ~ 500ms

### Cooling

- 120W with 8.6CFM forced air-cooling, 85W for fanless

### Output Protection

- Short circuit, overload & over voltage power protection

### MTBF

- 130K hours at 25°C, 70% full rated load (calculated by MIL217F).

### Environment

- Operating Temperature: 0°C to 50°C at full loading
- Operating Humidity: 10% ~ 90%RH, non-condensing

### EMI/RFI

- FCC Class B
- CISPR22 (EN55022) Class B

### Safety

- UL, CB, TUV,
- IEC 60950-1, EN 60950-1

### Dimension

- 83.8 (W) x 152.4 (D) x 40 (H) (mm)

### Output Table

Output Voltage	V1 +5V	V2 +3.3V	V3 +12V	V5 -12V	5VSB
Max Load	14A	6A	3A	1A	0.75A
Min Load	1A	0A	0A	0A	0A
Load Regulation	+/-2 %	+/-5 %	+7/-3 %	+8/-3 %	+/-4 %
Line Regulation	+/-1 %	+/-1 %	+/-1 %	+/-1 %	+/-1 %
Ripple	50 mV	50 mV	120 mV	200 mV	120 mV
Noise	50 mV	50 mV	120 mV	200 mV	120 mV

Note 1: The maximum total combined output power on the +3.3V and +5V rail is 70W.

Note 2: Measured by a 15MHz bandwidth limited oscilloscope and the each output is connected with a 0.47µF Capacitors

Note3: The +5V output is set between 5.08V to 5.13V by variable resistor and all output at 60% rated load and the other outputs are checked to be within the accuracy range.

Note4: Total maximum load cannot exceed 120W with 8.6 CFM forced air-cooling.

### Ordering Information

PGA-U120AX AC/DC 120W Open Frame ATX Power Supply