Universal AC Input Switchers

5-10 Watts GP Series



THE XPERTS IN POWER

85-264 VAC Input

Single & Dual Ouptuts

PCB Mounting

Eurocard Mounting Option

DIN Rail Mounting Option

Chassis Mounting Option

International Safety Approvals

Specification -

Input

Input Voltage
Input Frequency
Inrush Current

- 85-264 VAC (110-370 VDC)
- 47-440 Hz

20 A typical at 100 VAC,
 40 A typical at 200 VAC,
 (cold start & full load)

Output

Hold Up Time Output Voltage 10 ms at 85 VAC full load
See Table, ±5% initial tolerance

Line Regulation Load Regulation Ripple & Noise

See TableSee Table

See Table

Short Circuit & Overload Protection Operates >105% of rating & recovers automatically

General

Temperature Coefficient 0.02%/°C typical

Switching Frequency • Efficiency •

Isolation

250 kHz

See Table

 3000 VAC 1 min, 500 VDC 50 Mohm Input to Output,

2000 VAC 1 min, 500 VDC 50 Mohm Input to Case, FG

500 VAC 1 min, 500 VDC 50 Mohm

Output to Case, FG

Environmental

Operating Temperature 0 °C to +55 °C, derate linearly to 80% at -10 °C to 25% at +70 °C for 85-132 VAC, & 45% at +65 °C for 133-264 VAC

Humidity Shock 20-95% RH non-condensing

 50 G for 11 ms, once on each X. Y & Z axis

Vibration

10-55 Hz at 10 G, 3 mins period 60 mins each along each along X, Y & Z axis

EMC & Safety

Safety Approvals

IEC950, EN60950, UL1950, VDE 0160, CSA 22.2 No.234 N.B. To comply with with CSA agency approval units are labelled with nominal AC input voltage & frequency

EMC

 FCC Curve B, VDE 0871 Curve B, & EN55022B conducted noise with addition of 0.1 μF 'X' capacitor fitted across AC input

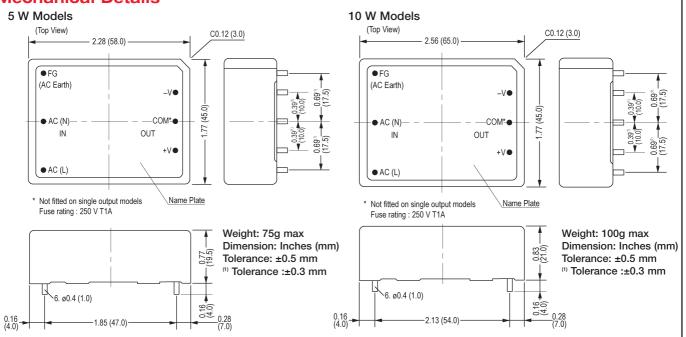


OUTPUT VOLTAGE & CURRENT RATINGS GP						
Output	Output	Efficiency	Regulation		Ripple & Noise	Model
Voltage	Current	(Typical @ 100 VAC)	Line(1)	Load(2)	Pk-Pk	Number
5 V	1.00 A	65%	20 mV	40 mV	80/120 mV	GP05US05
12 V	0.45 A	67%	40 mV	100 mV	120/150 mV	GP05US12
±12 V (24 V)	0.22 A	67%	60 mV	600 mV	120/150 mV	GP05UD12
±15 V (30 V)	0.17 A	67%	75 mV	750 mV	120/150 mV	GP05UD15
5 V	2.00 A	70%	20 mV	40 mV	80/120 mV	GP10US05
12 V	0.90 A	72%	48 mV	100 mV	120/150 mV	GP10US12
±12 V (24 V)	0.45 A	72%	60 mV	600 mV	120/150 mV	GP10UD12
±15 V (30 V)	0.35 A	72%	75 mV	750 mV	120/150 mV	GP10UD15

Notes

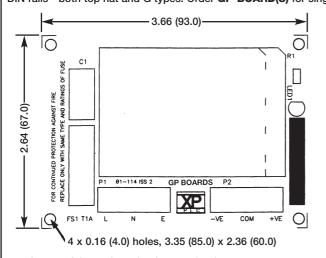
- 1. Measured low line to high line.
- 2. Measured no load to full load.

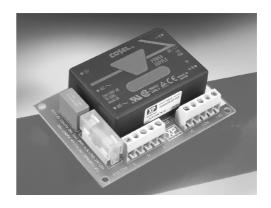
Mechanical Details



Mounting Options

The GP-BOARD is designed to accept any of the GP series models, in addition it can be supplied with a DIN HOUSING for mounting on DIN rails - both top hat and G types. Order **GP-BOARD(S)** for single output models and **GP-BOARD(D)** for dual output models.





The GP-EUROCARD (3.94 (100) x 6.31 (160) is designed to accept any combination of two GP series models to provide dual, triple and quad outputs. In addition it can be supplied with a GP-E/CARD KIT which includes 6TE front panel and plastic cover for rear of pcb.

