

Enclosed AC/DC Switching Power Supply



Features

- Slim and Low Profile
- Protections :
Short circuit / Over voltage / Over current
Over temperature
- Energy Efficiency $\geq 92\sim 95\%$ depends on models
- MTBF > 50,000 hours
- Fanless and Conduction-cooled Design
- Withstand 300VAC Surge Input for 5 seconds
- Built-in Active PFC Function
- DC OK Active Signal
- LED Indicator

EP1800 XX YY

XX: Specified output voltage, i.e. 12 is 12VDC
YY: Differential segmentation

General Specification

OUTPUT

MODEL No.	MAX. OUTPUT POWER (W)	OUTPUT VOLTAGE (Vo)	MIN. LOAD (Io)	MAX. LOAD (Io)	LOAD REGULATION	LINE REGULATION	RIPPLE & NOISE
EP180012YY	750W	12V	0A	62.5A	$\pm 0.5\%$	$\pm 0.5\%$	150mV
EP180024YY	800W	24V	0A	33.33A	$\pm 0.5\%$	$\pm 0.5\%$	200mV
EP180036YY	800W	36V	0A	22.22A	$\pm 0.5\%$	$\pm 0.5\%$	250mV
EP180048YY	800W	48V	0A	16.66A	$\pm 0.5\%$	$\pm 0.5\%$	250mV

NOTE:

- 1 : Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1uF ceramic capacitor & parallel with 47uF aluminum capacitor at full load and nominal line.
- 2 : Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
- 3 : Max. Power (W) $\geq V_o \times I_o$

INPUT

- Input Range 100 to 240VAC
- Frequency 50 to 60Hz
- Input Current $\leq 7.5A$
- Inrush Current $\leq 40A/230VAC$
- Hold Up Time $\geq 8.3ms$
- Turn On Time $\leq 1s$

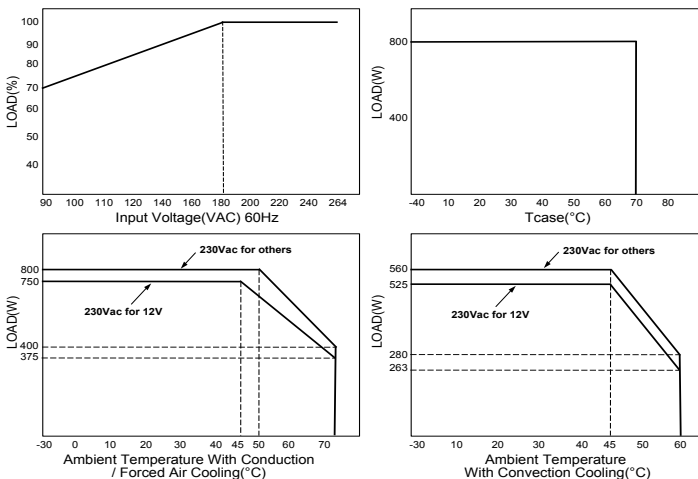
PROTECTION

- Short Circuit Protection Auto Recovery
- Over Circuit Protection Auto Recovery
- Over Voltage Protection Latch-off
- Over Temperature Protection Auto Recovery

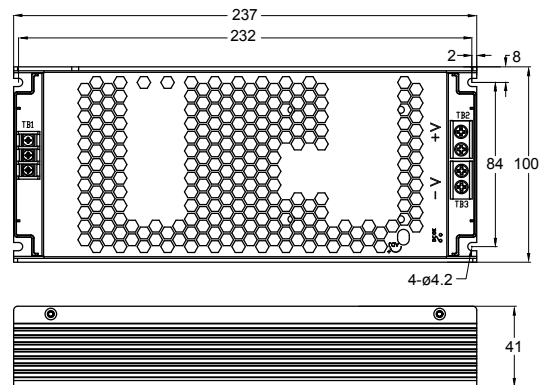
ENVIRONMENT

- Operating Temperature -30 to 70°C
- Storage Temperature -40 to 85°C
- Operating Humidity 20% to 90 %
- Storage Humidity 10% to 95 %

DERATING CURVE



MECHANICAL



- Mechanical Size: 237L x 100W x 41H (mm)

- Pin Assignment:

AC Input Terminal (CN1): DECAT21 or equivalent

Pin No.	Assignment
1	AC/L
2	AC/N
3	\perp

DC Output Terminal (CN2,CN3 & CN7,CN8): EDAC Terminal

Pin No.	Assignment
CN2,CN3	+V
CN7,CN8	-V

- Weight: 1400g

SAFETY

- Complied with UL 62368-1, CAN/CSA C22.2 No. 62368-1, TUV EN 62368-1, CB IEC 62368-1, FCC Part 15B, CE EMC(EN 55032+EN 55035)