

Enclosed AC/DC Switching Power Supply



Features

- Slim and Low Profile
- Protections:
Short circuit / Over voltage / Over current
Over temperature
- Energy Efficiency $\geq 93\%$ ~95% depends on models
- MTBF > 100,000 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 U - XX YY

- U:** Output range
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
EP1800A	750W	12V	0A	62.5A	$\pm 0.5\%$	$\pm 0.5\%$	150mV
EP1800B	800W	24V	0A	33.33A	$\pm 0.5\%$	$\pm 0.5\%$	200mV
EP1800C	800W	36V	0A	22.22A	$\pm 0.5\%$	$\pm 0.5\%$	250mV
EP1800D	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: $\leq 8.2A$
- Inrush Current: $\leq 40A/230VAC$
- Hold Up Time: $\geq 8.3ms$
- Turn On Time: $\leq 3s$

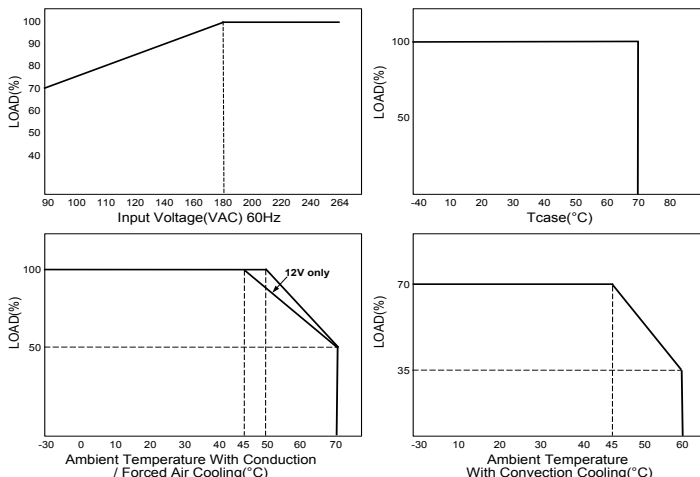
PROTECTION

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

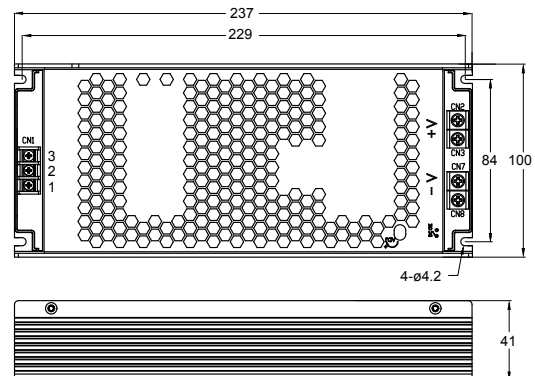
ENVIRONMENT

- 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

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