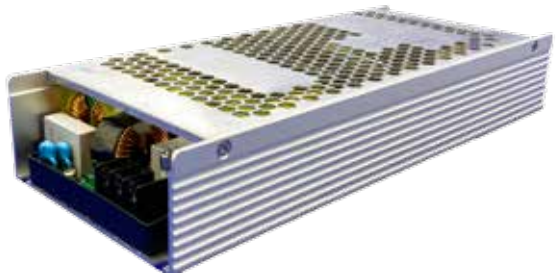
Enclosed AC/DC Switching Power Supply



Features

- Slim and Low Profile
- Protections:
  Short circuit / Over voltage / Over current
  Over temperature
- Energy Efficiency ≥ 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	± 0.5%	± 0.5%	150mV
EP1800B	800W	24V	0A	33.33A	± 0.5%	± 0.5%	200mV
EP1800C	800W	36V	0A	22.22A	± 0.5%	± 0.5%	250mV
EP1800D	800W	48V	0A	16.66A	± 0.5%	± 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 ±10% of input voltage from nominal line at rated load.
3 : Max. Power (W) ≥ Vo x Io

INPUT

• Input Range	100 to 240VAC
• Frequency	50 to 60Hz
• Input Current	≤ 8.2A
• Inrush Current	≤ 40A/230VAC
• Hold Up Time	≥ 8.3ms
• Turn On Time	≤ 3s

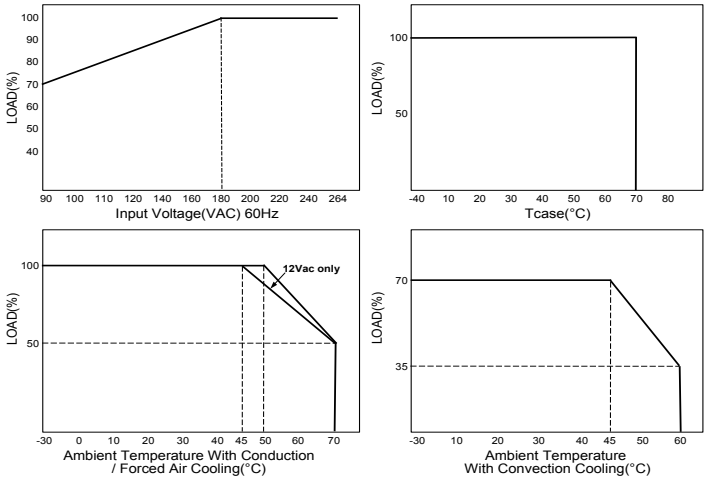
PROTECTION

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

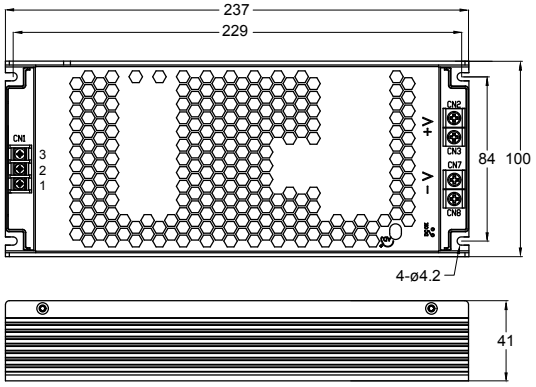
ENVIRONMENT

• 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	⏚

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, 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