EP1501 Series

• 500W Max.

Enclosed AC/DC Switching Power Supply



Features

- Slim and Low Profile
- 100-240VAC Universal Input
- Active PFC Function
- Protections：Short circuit / Over voltage / Over current Over temperature
- Energy Efficiency ≥ 92%~95% depends on models
- Fanless and Conduction-cooled Design
- MTBF > 500,000 hours
- Withstand 300VAC surge input for 5 seconds
- DC OK Relay Contact
- LED Indicator

EP1501 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
EP1501A	500W	12V	0A	41.66A	± 1%	± 1%	200mV
EP1501B	500W	15V	0A	33.33A	± 1%	± 1%	200mV
EP1501C	500W	24V	0A	20.83A	± 1%	± 1%	360mV
EP1501D	500W	36V	0A	13.88A	± 1%	± 1%	360mV
EP1501E	500W	48V	0A	10.41A	± 1%	± 1%	480mV

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 240 VAC
• Frequency	50 to 60Hz
• Input Current	≤ 5.5A
• Inrush Current	≤ 120A/230VAC
• Hold up time	≥ 8.3ms
• Turn On Time	≤ 3s

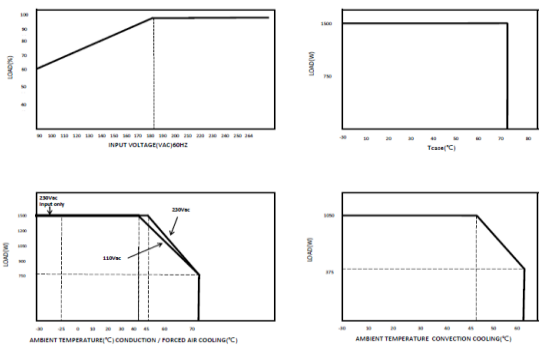
PROTECTION

• Short Circuit Protection	Auto Recovery
• Over Voltage Protection	Auto Recovery
• Over Current Protection	Auto Recovery
• Over Temperature Protection	Auto Recovery

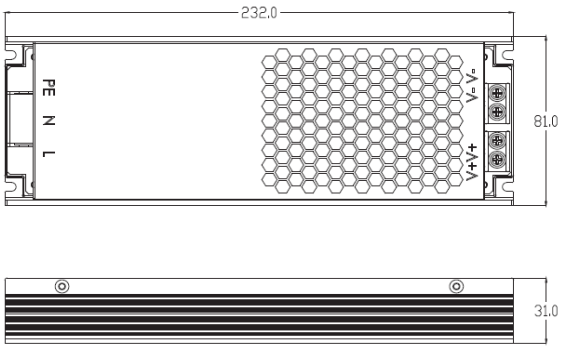
ENVIRONMENT

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

DERATING CURVE



MECHANICAL



- Mechanical Size: 232L x 81W x 31H (mm)
- Pin Assignment:

AC Input terminal (TB1): (DEGSON) DG28C-B-03P

Pin No.	Assignment
1	AC/L
2	AC/N
3	⏚

DC output terminal (TB2,TB3): EDAC terminal

Pin No.	Assignment
TB2	V+
TB3	V-

- Weight: 1800g

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)