



Dimensions: 150(D)x153(W)x59(H) mm

Features

- High power density
- Universal input range
- Convection cooled
- RoHS compliance
- 3 year warranty
- Great reliability
- DIN rail / Wall bracket mounting solution
- Over voltage protection
- Overload protection
- Short circuit protection
- Reverse polarity protection
- Built-in MCU

Safety Standards



EN 60950 (Marking)

EMC Standards

EN55011	Class B
EN55022	Class B
EN61000-4-2	Level 3
EN61000-4-3	Level 3
EN61000-4-4	Level 3
EN61000-4-5	Level 3
EN61000-4-6	Level 3
EN61000-4-8	Level 3
EN61000-4-11	Level 3

Model List

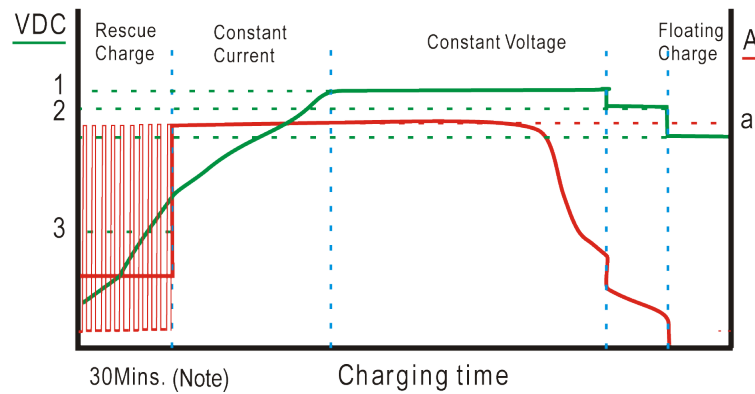
Model	Charging Voltage Boost	Charging Voltage Float	Charging Current	Line Reg.	Load Reg.	Efficiency	Over Voltage Protection
EPS1220	14.7VDC	13.8VDC	20A Max.	±1%	±1%	84%	18~21VDC
EPS2410	29.4VDC	27.6VDC	10A Max.	±1%	±1%	86%	32~35VDC
EPS3606	44.1VDC	41.4VDC	6A Max.	±1%	±1%	86%	48~52VDC
EPS4805	58.8VDC	55.2VDC	5A Max.	±1%	±1%	86%	62~70VDC

- **NOTE:** 1. Line regulation is measured from low line to high line at rated load.
 2. Load regulation is measured from 20% to 100% of rated load at 230VAC input.
 3. Efficiency is measured at rated load and 230VAC input.

Specification

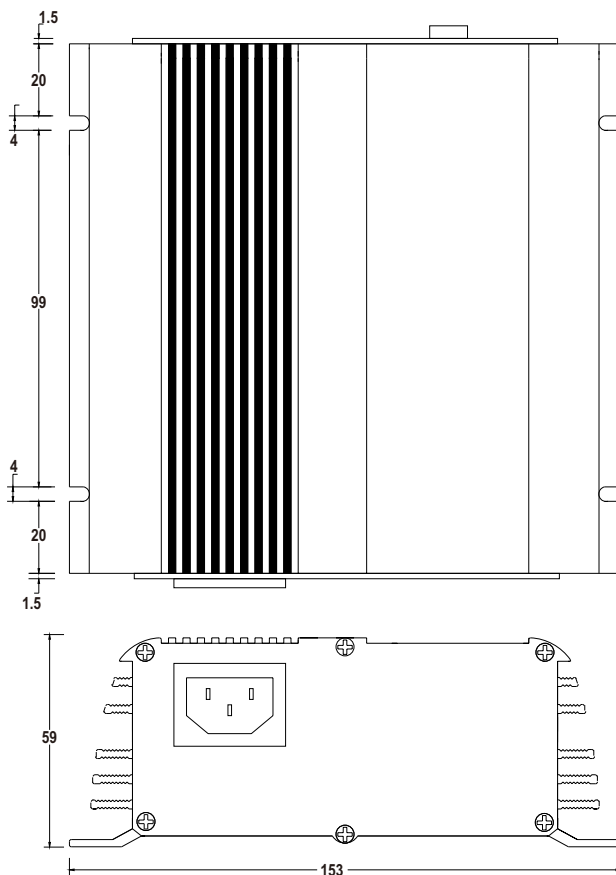
General	
Switching Frequency	85kHz
Isolation Voltage	Input-Output 3000VAC /4242VDC
	Input-FG 1500VAC/2121VDC
	Output-FG 500VAC/ 710VDC
Isolation Resistance	100MΩ when Input-Output @500VDC
Operating Temperature	-40°C~50°C ambient
Storage Temperature	-40°C to +85°C
Relative Humidity	5%~95% RH, Non-condensing.
Temperature Coefficient	±0.04% of output voltage per °C
MTBF	60,000hrs Min. Per MIL-HDBK-217F, 25°C GB
Attitude During Operation	2000m
Installation position	Vertical
Vibration	Random vibration, 10~100Hz. 3 axise
Input	
Input Voltage	115/230AC±15% Selectable
Input Frequency	47~63Hz
Inrush Current (cold start)	22A/115VAC 44A/230VAC
Rated Input Current	5.0A Max., Vi=110~200VAC, 4A Max@Vi=200~240Vac
Leakage Current	Input-output 0.37mA, Input-FG 3.5mA
Output	
Line Regulation	±1%, measuring from low line to high line rated load
Load Regulation	±1%, measuring from 20% to 100% of rated load 230VAC input
Rated Continuous Loading	See Model List
Turn On Time	1500mS
Efficiency	See model list, measuring at rated load and 230VAC input.
Protection	
Input Fuse	5A/250V
Internal Surge Load Protection	Varistor, IEC6100-4-5
Degree of Protection	IP64
Short Circuit Protection	Autorecovery
Over Voltage Protection	Autorecovery
Rated Over Load Protection	100%
Overload protection	Current limited

Charging Curve



Type Code	12V	24V	36V	48V
a(A)	20.0	10.0	6.0	5.0
b(A)	14.7	29.4	44.1	58.8
1(VDC)	13.8	27.6	41.4	55.2
2(VDC)	8.0	16.0	24.0	32.2

Mechanical Details



Dimensions: 150(D)x153(W)59(H)mm
 Material: Aluminum(Extrusion)
 Input Cable: 1.5m power cord
 DC output: 1.2m, 14AWG x2 + alligator clip
 Package: 10pcs/Ctn