



Dimensions:200(L)x153(W)x59(H)mm

Features:

- Wide AC input range
- RoHS compliance
- 3 - year warranty
- Over voltage protection
- Convection cooled
- Overcurrent protection
- Short circuit protection
- Reverse polarity protection
- Sparkle free design
- Smart charging control built-in MCU

General Specifications

INPUT

Input voltage.....115/230VAC±15%
 Input frequency47~63Hz
 Inrush current22A/115VAC
 (Cold start) 44A/230VAC



OUTPUT

Temp. Coefficient±0.04% / °C
 Overvoltage protectionAutorecovery
 Over current protection Current limited
 Short circuit protection..... Shutdown
 Transient response. .. (Load change 50% to 100%)
 Voltage deviation5%
 Recovery time2mS

EMC STANDARDS

EN 55011	Class B
EN 55022	Class B
EN 61000-4-2	Level 3
EN 61000-4-3	Level 3
EN 61000-4-4	Level 3
EN 61000-4-5	Level 3
EN 61000-4-6	Level 3
EN 61000-4-8	Level 3
EN 61000-4-11	Level 3

SAFETY STANDARDS

	EN 60335 (Meet)
	UL 60335 (Meet)

ENVIRONMENTAL

Operating temperature: -20°C ~ 40°C ambient, derating each output at 2.5% per degree from 40°C to 60°C
Operating humidity: Non-condensing, 5% ~ 95%RH.
Vibration: Random vibration, 10Hz ~ 100Hz, 3axis.
MTBF: 60,000hrs Min. Per MIL-HDBK-217F, 25°C GB.

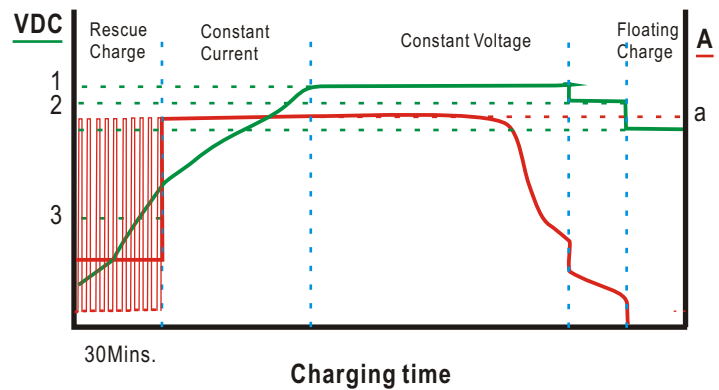
Output Specifications

Model	Charging voltage Boost	Charging voltage Float	Charging current (A)	Line Reg.	Load Reg.	Efficiency	Overvoltage Protection
EPS1220	14.7VDC	13.8VDC	20A Max.	±1%	±1%	84%	15~17VDC
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.

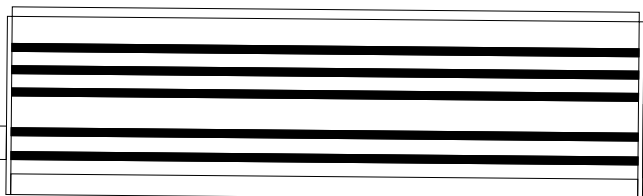
Charging curve

Type Code	12V	24V	36V	48V
a (A)	20	10	6	5
1 (VDC)	14.7	29.4	44.1	58.8
2 (VDC)	13.8	27.6	41.4	55.2
3 (VDC)	8.0	16.0	24.0	32.0



Mechanical Details

Note: This phase is only executed if the battery voltage is less than 1.9 volts/cell.



Case No: AE1240C
 Material: Aluminum (Extrusion)
 Dimensions: 200(L)x153(W)x59(H)mm
 Input connection: IEC320 C14 socket
 DC output cable: 1.2m, 14 AWGx2 + alligator clip

