



Dimensions:240(L)x97(W)x52(H)mm

Features:

- Wide Input range
- RoHS compliance
- 3 - year warranty
- Overvoltage protection
- Build-in fan cooled
- Overcurrent protection
- Short circuit protection
- 3-stage charging control
- Reverse polarity protection

General Specifications

INPUT

Input voltage.....115/230VAC±15%
 Input frequency47~400Hz
 Inrush current22A/115VAC
 (Cold start) 44A/230VAC




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

OUTPUT

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

SAFETY STANDARDS

	EN 60950 (Marking)
	UL 60950 (Meet)
	CSA 22.2 (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 ~ 2KHz, 3axis.
 MTBF: 80,000hrs Min. Per MIL-HDBK-217F, 25°C GB.

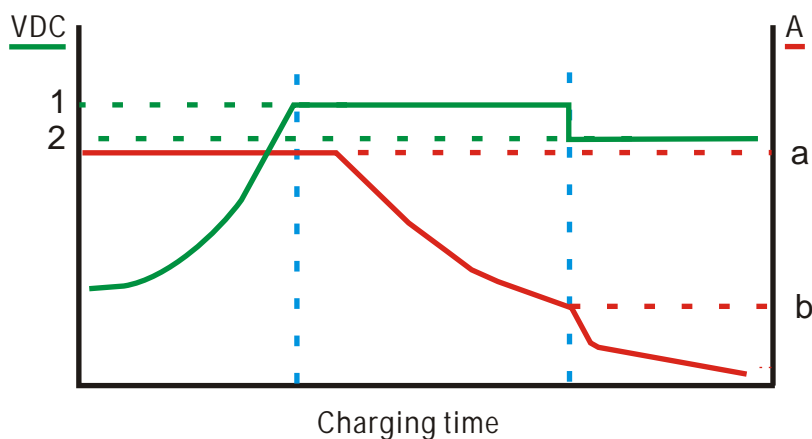
Output Specifications

Model	Charging voltage Boost	Charging voltage Float	Charging current (A)	Line Reg.	Load Reg.	Efficiency	Overvoltage Protection
AE1300C-12S	14.7VDC	13.8VDC	20A Max.	± 1%	±1%	82%	15~17VDC
AE1300C-24S	29.4VDC	27.6VDC	10A Max.	± 1%	±1%	84%	32~35VDC
AE1300C-36S	44.1VDC	41.4VDC	6.6A Max.	± 1%	±1%	84%	48~52VDC
AE1300C-48S	58.8VDC	55.2VDC	5A Max.	± 1%	±1%	85%	62~70VDC

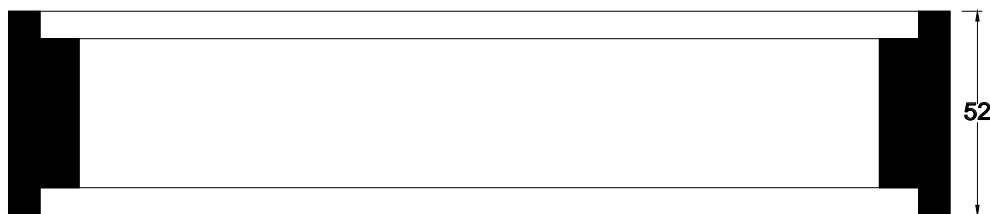
- NOTE:**
1. Line regulation is measured from low line to high line at rated load.
 2. Load regulation is measured from 20% to 100% of rated load at 230VAC input.
 3. Efficiency is measured at rated load and 230VAC input.

Charging curve

Type \ Code	12V	24V	36V	48V
a (A)	20	10	6.6	5
b (A)	0.6	0.6	0.6	0.6
1 (VDC)	14.7	29.4	44.1	58.8
2 (VDC)	13.8	27.6	41.4	55.2



Mechanical Details



Case No.: AE1300C
Material: Aluminum (Extrusion)
Dimensions: 240(L)x97(W)x52(H)mm

