

AE1120CF Series

120Watts, Lead-Acid Battery Charger



Dimensions:155(L)x153(W)x59(H)mm

Features:

- Universal AC input
- RoHS compliance
- 3 - year warranty
- IP54 protection for damp environment
- Overvoltage protection
- Convection cooled
- Overcurrent protection
- Short circuit protection
- 3-stage charging control
- Reverse polarity protection

General Specifications

INPUT

Input voltage.....100~240VAC
 Input frequency47~400Hz
 Inrush current22A/110VAC
 (Cold start) 44A/220VAC

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 ~ 50Hz, 3axise.

MTBF: 80,000hrs Min. Per MIL-HDBK-217F, 25°C GB.

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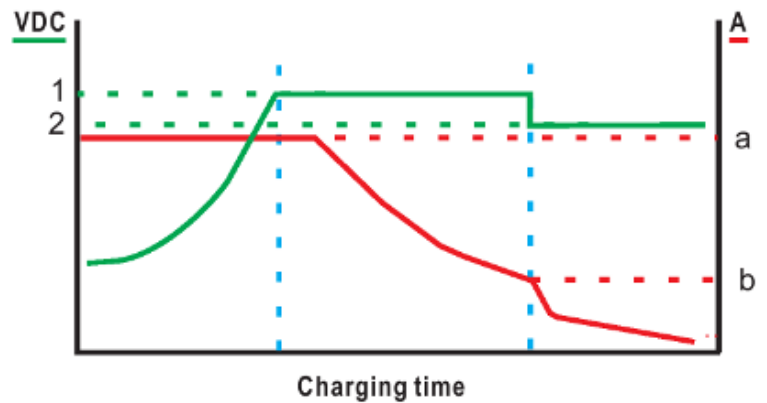
Output Specifications

Model	Charging voltage Boost	Charging voltage Float	Charging current (A)	Line Reg.	Load Reg.	Efficiency	Overvoltage Protection
AE1120C-12F	14.7VDC	13.8VDC	8A Max.	± 1%	± 1%	82%	15~17VDC
AE1120C-24F	29.4VDC	27.6VDC	4A Max.	± 1%	± 1%	83%	32~35VDC
AE1120C-36F	44.1VDC	41.4VDC	3A Max.	± 1%	± 1%	83%	48~52VDC
AE1120C-48F	58.8VDC	55.2VDC	2A Max.	± 1%	± 1%	84%	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 110VAC input.
 3. Efficiency is measured at rated load and 110VAC input.

Charging curve

Code \ Type	12V	24V	36V	48V
a (A)	8	4	3	2
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

