



Dimensions:121(D)x110(H)x75(W)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
- 3-stage charging control

General Specifications

INPUT

Input voltage.....100~240VAC/120~370VDC
 Input frequency47~63Hz
 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 |

ENVIRONMENTAL

Operating temperature: -30°C ~ 50°C ambient, derating each output at 2.5% per degree from 50°C to 70°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

Hold-up time (Full load@230VAC).....20mS Min.
 Temp. Coefficient±0.04% / °C
 Over voltage protectionAutorecovery
 Overload protection Power limited
 Short circuit protection..... Autorecovery
 Transient response... (Load change 50% to 100%)
 Voltage deviation5%
 Recovery time2mS

SAFETY STANDARDS



EN 60950 (Meet)



UL 508 (Meet)
 CSA 22.2 (Meet)

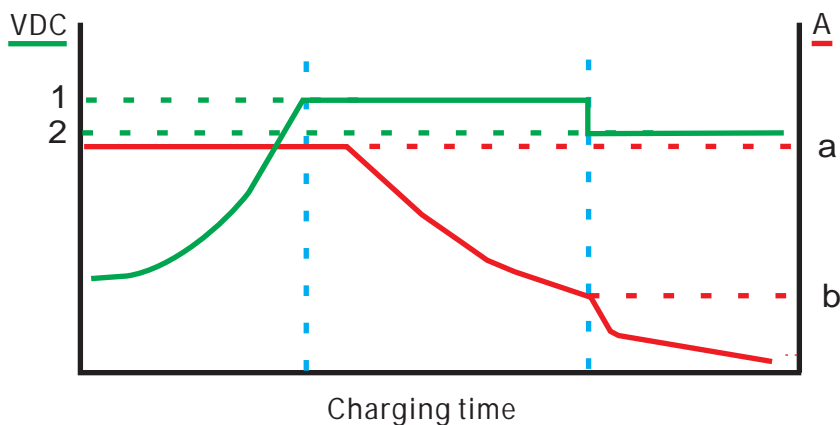
Output Specifications

| Model | Charging voltage Boost | Charging voltage Float | Charging current (A) | Line Reg. | Load Reg. | Efficiency | Over voltage Protection |
|-------------|------------------------|------------------------|----------------------|-----------|-----------|------------|-------------------------|
| AD1120C-12F | 14.7VDC | 13.6VDC | 10.0A Max. | ± 1% | ±1% | 81% | 18-22VDC |
| AD1120C-24F | 29.4VDC | 27.2VDC | 5.0A Max. | ± 1% | ±1% | 82% | 33-37VDC |
| AD1120C-36F | 44.1VDC | 40.8VDC | 2.5A Max. | ± 1% | ±1% | 84% | 47-51VDC |

- 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

| Code \ Type | 12V | 24V | 36V |
|-------------|------|------|------|
| a (A) | 10.0 | 5.0 | 2.5 |
| b (A) | 0.6 | 0.6 | 0.6 |
| 1 (VDC) | 14.7 | 29.4 | 44.1 |
| 2 (VDC) | 13.8 | 27.6 | 41.4 |



Mechanical Details

