



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 | | Charging current | Line Reg. | Load Reg. | Efficiency | Over Voltage Protection |
|---------|------------------|---------|------------------|-----------|-----------|------------|-------------------------|
| | Boost | Float | | | | | |
| EPS1210 | 14.7VDC | 13.8VDC | 10A Max. | ±1% | ±1% | 82% | 15~17VDC |
| EPS2405 | 29.4VDC | 27.6VDC | 5.0A Max. | ±1% | ±1% | 83% | 32~35VDC |
| EPS4803 | 58.8VDC | 55.2VDC | 3.0A Max. | ±1% | ±1% | 84% | 64~70VDC |

- **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.

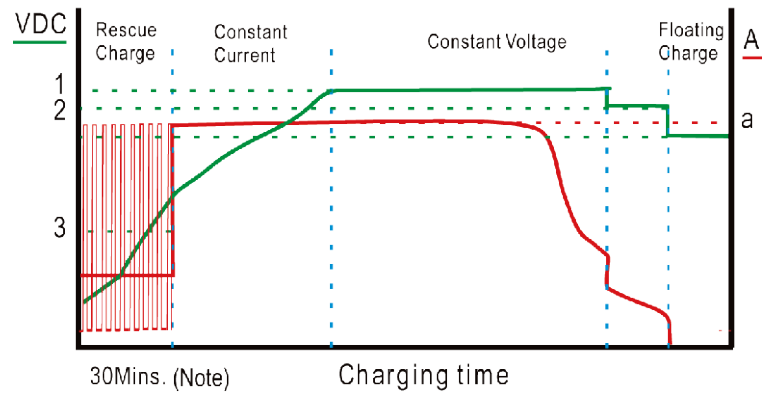
Specification

| General | | |
|--------------------------------|--------------|--|
| Switching Frequency | | 85k Hz |
| Isolation Voltage | Input-Output | 3000 VAC/4242 VDC |
| | Input-FG | 1500 VAC/2121 VDC |
| | Output-FG | 500 VAC/710 VDC |
| Isolation Resistance | | 100MΩ when Input-Output @500VDC |
| Operating Temperature | | -40°C~40°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 |
| Altitude During Operation | | 2000m |
| Installation position | | Vertical |
| Vibration | | Random vibration, 10~500Hz, 3 axes |
| Input | | |
| Input Voltage | | 100~240VAC/120~370VDC |
| Input Frequency | | 47~63 Hz |
| Inrush Current (cold start) | | 22A/115VAC 44A/230VAC |
| Rated Input Current | | 4.0A Max., Vi=100~240VAC |
| Leakage Current | | Input-output 0.3mA, Input-FG 3.5mA |
| Output | | |
| Line Current Regulation | | ±1%, measuring from low line to high line at rated load. |
| Load Current Regulation | | ±1%, measuring from 20% to 100% of rated load at 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 | | 3.15A/250V |
| Internal Surge Load Protection | | Varistor, IEC 61000-4-5 |
| Degree of Protection | | IP64 |
| Short Circuit Protection | | Auto recovery |
| Over Voltage Protection | | Auto recovery |
| Rated Over Load Protection | | 100% |
| Overload protection | | Current limited |

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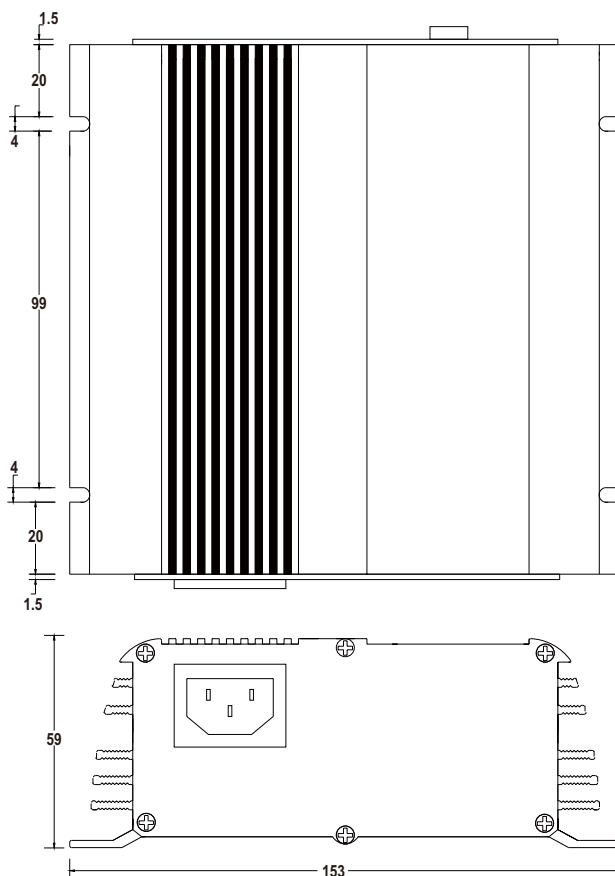
ACRO
ENGINEERING INC.

Charging Curve



| Type Code | 12V | 24V | 48V |
|-----------|------|------|------|
| a(A) | 10.0 | 5.0 | 3.0 |
| b(A) | 14.7 | 29.4 | 58.8 |
| 1(VDC) | 13.8 | 27.6 | 55.2 |
| 2(VDC) | 8.0 | 16.0 | 32.0 |

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