



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 Boost	Charging Voltage Float	Charging current	Line Reg.	Load Reg.	Efficiency	Over Voltage Protection
EPS1210	14.7VDC	13.8VDC	20A Max.	±1%	±1%	84%	18~21VDC
EPS2405	29.4VDC	27.6VDC	10A Max.	±1%	±1%	86%	32~35VDC
EPS3606	44.1VDC	41.4VDC	6A Max.	±1%	±1%	86%	48~52VDC
EPS4803	58.8VDC	55.2VDC	5A Max.	±1%	±1%	86%	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.

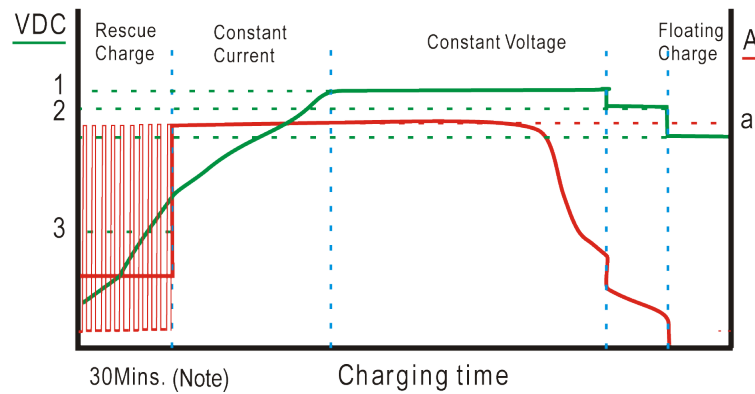
### Specification

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 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		115/230VAC± 15%
Input Frequency		47~63 Hz
Inrush Current (cold start)		22A/115VAC 44A/230VAC
Rated Input Current		5A Max@Vi=100~120vac .,3A Max@Vi=200~240vac
Leakage Current		Input-output 0.37mA, Input-FG 4.5mA
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		5A/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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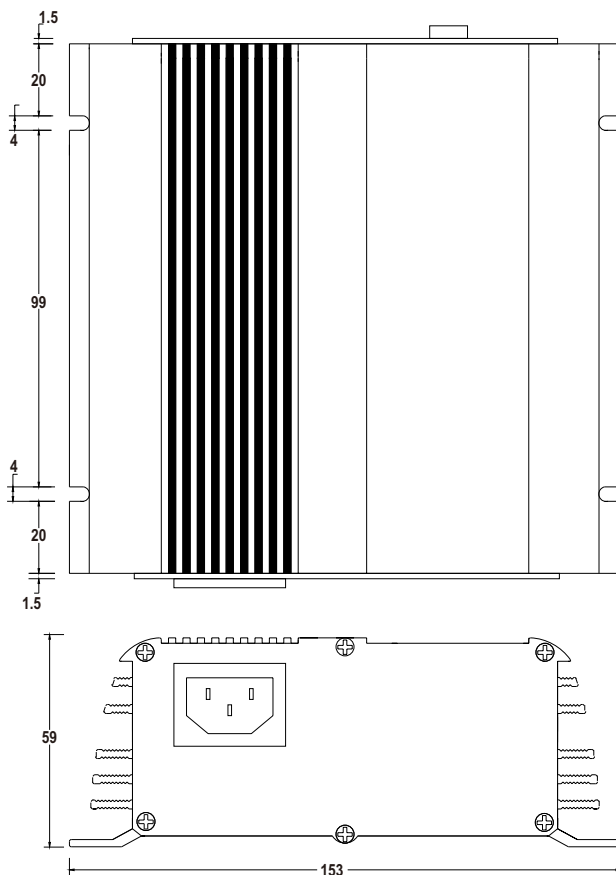
**ACRO**  
**ENGINEERING INC.**

### Charging Curve



Type Code	12V	24V	36V	48V
a(A)	20.0	10.0	6.0	5.0
b(A)	14.7	29.4	44.1	58.8
1(VDC)	13.8	27.6	41.4	55.2
2(VDC)	8.0	16.0	24.0	32.2

### 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