

Lithium-ion Battery Charger



Features

- Application: E-bike, E-scooter, E-wheelchair, E-tool
- CC/CV Charging Mode
- For 29.4V/7S & 42V/10S & 54.6V/13S Battery Pack Use
- Battery Polarity Reverse Protection
- LED Indicator
- Protections:
 - Short circuit / Over voltage / Over current
 - Over temperature
- No Load Power Consumption $\leq 1W$
- MTBF > 100,000 hours

EC116A X Y - vv PP

X: AC inlet: 2. C8 3. C6

Y: Output range

vv: Specified output voltage, i.e. 42 is 42VDC

PP: DC plug type, i.e. Code 01 for 5.5x2.1mm or other options (refer to the appendix page)

General Specification

OUTPUT

For 10S battery pack use

MODEL No.	MAX. OUTPUT POWER (W)	OUTPUT VOLTAGE (Vo)	MIN. LOAD (Io)	MAX. LOAD (Io)	LOAD REGULATION	LINE REGULATION	RIPPLE & NOISE
EC116AXA	84W	42V	0A	2A	$\pm 5\%$	$\pm 1\%$	600mV
EC116AXB	126W	42V	0A	2A	$\pm 5\%$	$\pm 1\%$	600mV
EC116AXC	168W	42V	0A	1A	$\pm 5\%$	$\pm 1\%$	600mV

For 13S battery pack use

MODEL No.	MAX. OUTPUT POWER (W)	OUTPUT VOLTAGE (Vo)	MIN. LOAD (Io)	MAX. LOAD (Io)	LOAD REGULATION	LINE REGULATION	RIPPLE & NOISE
EC116AXD	109.2W	54.6V	0A	2A	$\pm 5\%$	$\pm 1\%$	800mV
EC116AXE	163.8W	54.6V	0A	3A	$\pm 5\%$	$\pm 1\%$	800mV

For 7S battery pack use

MODEL No.	MAX. OUTPUT POWER (W)	OUTPUT VOLTAGE (Vo)	MIN. LOAD (Io)	MAX. LOAD (Io)	LOAD REGULATION	LINE REGULATION	RIPPLE & NOISE
EC116AXF	117.6W	29.4V	0A	4A	$\pm 5\%$	$\pm 1\%$	600mV
EC116AXG	147W	29.4V	0A	5A	$\pm 5\%$	$\pm 1\%$	600mV

NOTE:

- 1 : Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1uF ceramic capacitor & parallel with 47uF aluminum capacitor at full load and nominal line.
- 2 : Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
- 3 : Max. Power (W) $\geq V_o \times I_o$

INPUT

- Input Range 100 to 240 VAC
- Frequency 50 to 60Hz
- Input Current $\leq 2.5A$
- Inrush Current $\leq 120A/230VAC$

PROTECTION

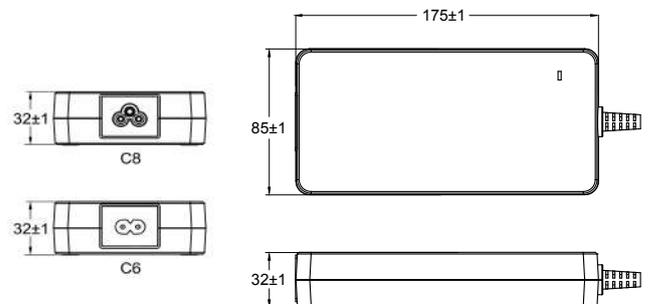
- Short Circuit Protection Latch-off
- Over Voltage Protection Latch-off
- Over Current Protection Latch-off
- Over Temperature Protection Latch-off

ENVIRONMENT

- Operating Temperature -20 to 40°C
- Storage Temperature -20 to 85°C
- Operating Humidity 10% to 90%
- Storage Humidity 5% to 90%

SAFETY

- Complied with EN/IEC 60335-1/EN IEC 60335-2-29, FCC Part 15B, CE EMC(EN 55014-1+EN 55014-2), UKCA, UL 1012



- Case Size: 175L x 85W x 32H (mm)
- AC Inlet: C8, C6
- Weight: 670g