

EC1085 Series

• 84W Max.

Battery Charger



Features

- Application: E-bike
- CC/CV Charging Mode
- 10S battery pack use
- For 42V Lithium-ion battery
- Battery Reverse Polarity Protection
- Universal AC input
- LED Indicator
- Protections :
 - Short circuit / Over voltage / Over current
 - Over temperature
- No load power consumption $\leq 1W$
- MTBF > 100,000 hours

EC1085 X - vv PP

- X:** AC inlet: 2. C8 3. C6
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)

| MODEL No. | MAX. OUTPUT POWER (W) | OUTPUT VOLTAGE (Vo) | MIN. LOAD(Io) | MAX. LOAD(Io) | LOAD REGULATION | LINE REGULATION | RIPPLE & NOISE |
|-----------|-----------------------|---------------------|---------------|---------------|-----------------|-----------------|----------------|
| EC1085 | 84W | 42V | 0A | 2A | $\pm 5\%$ | $\pm 1\%$ | 300mV |

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) $\geq V_o \times I_o$

Electrical Specification

INPUT

- Input Range 100 to 240 Vac
- Frequency 50 to 60Hz
- Input Current $\leq 2.2A$
- Inrush Current $\leq 70A/230VAC$

OUTPUT

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

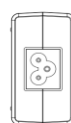
ENVIRONMENTAL

- Operating Temperature 0 to 40°C
- Storage Temperature -20 to 85°C
- Operating Humidity 10% to 90 %
- Storage Humidity 5% to 90 %

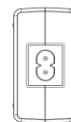
SAFETY

- Complied with UL/cUL 1012, EN/IEC 60335-1, EN/IEC 60335-2-29 FCC, CE

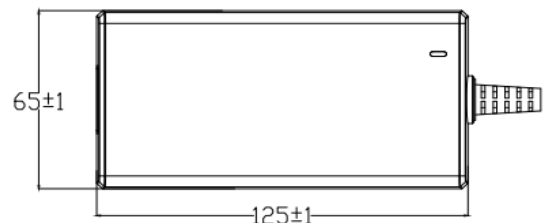
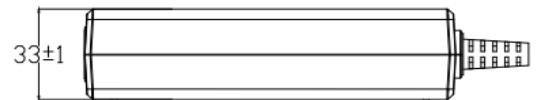
Mechanical Specification



C6



C8



- Case Size: 125L x 65W x 33H (mm)
- AC Inlet: C8, C6
- Weight: 420g

Above safety certificates are for reference only. Please contact our sales department for more details.