

Battery Charger

120W

Nuteck Power Solutions P Ltd.
 1st Floor, 115/5, Ramtekdi Industrial Area,
 Hadapsar, Pune-411013.
 Tel : +91 26811162, Mob : +91 9552545012
 Email : info@nuteck.in
 Web : www.nuteck.in

120W Single Output Battery Charger

• Features:

- Three Stage Charging.
- SMPS base Battery Charger
- Universal Input Supply Range
- Automatic Selection of FLOAT and BOOST mode
- Protections: Short Circuit / Over load / Over temperature
- Withstand 440VAC Input continuous
- Battery Reverse Protection with Auto Recovery
- LED Indication for Mains on, Float mode, Boost mode and Battery reverse Polarity
- 100% Full Load Burn in test.
- High reliability

SPECIFICATION

MODEL	C2 B120-12	C9 B120-12	C3 B120-12	C6 B120-12
Output	Float Voltage	13.5V		
	Float Current	2A ~ 3A		
	Boost Voltage	14.2V		
	Boost Current	10A		
	Rated Power	142W		
	Ripple and Noise Max.	< 1% Of Rate Voltage.		
	Voltage Tolerance	< 1% Of Rate Voltage.		
	Line Regulation	< +/- 0.5 %		
	Load Regulation	< +/- 1 %		
	Hold up Time	> 20mSec		
Input	Voltage Range	90 VAC - 300 VAC	160 VAC - 300 VAC	
	Frequency	45Hz - 65Hz		
	Efficiency	>85%		
	Inrush Current	<30A At 230VAC		
	Leakage Current	<1mA At 230VAC		
Protection	Input Over Voltage	Above 300 VAC Protection Type: Shut down, Recovers automatically after fault condition is removed. Withstand 460VAC Withstand 320VAC Withstand 460VAC Withstand 320VAC		
	Output Over Load	Above 105% Rated output Power Protection Type: Constant Current, Recovers automatically after fault condition is removed.		
	Over Temperature	>140DegC Case Temp typically detect on main control IC (U1) Protection Type: Shut down, Auto recover after fault condition is removed. Protection Type: Shut down, Recover after fault condition is removed and AC power recycle.		
	Reverse Polarity	Battery reverse protection with Auto Recovery		
	LED Indications	LED Indication for Mains on, Float, Boost and Battery Rev. Polarity		
	Potential Free Contacts	NO-P-NC for Charger fail annunciation		
Environment	Working Temp.	-5DegC to 55DegC.		
	Working Humidity	20 to 90%RH Non Condensing.		
	Storage Temp Humidity	-10 to 85DegC 10 to 95% RH.		
	Vibration	10 to 500Hz, 2G, 20min/sweep, peroi -1Hr, Each along X, Y, Z axes.		
Safety & EMC	Safety Standard	Designed to meet UL60950-1		
	Withstand Voltage	I/P-O/P : 2KVAC , I/P-Earth : 1.5KVAC , O/P-Earth : 500VDC.		
	Isolation Resistance	I/P-O/P , I/P-Earth , O/P-Earth : 100M Ohms / 500VDC.		
	EMI & EMC	Designed to meet IEC61000-4-4/5/6/11, EN55011		
Other	Enclosure Protection	IP-20		
	Cooling	Natural Cooling.		
	Dimension	187*115*60 (L*W*H)		
Note	1. All parameters NOT specially mentioned are measured at Typical input, rated load and 25Deg.C ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminate with a 0.1uF & 47uF parallel capacitor. 3. Tolerance : includes set up tolerance , line regulation and load regulation. 4. The Battery Charger is considered a component which will be installed into a final equipment. The final equipment must be re-conformed that it still meets EMC directives. 5. Specifications are subject to change without prior notice due to constant improvement in design & technology.			

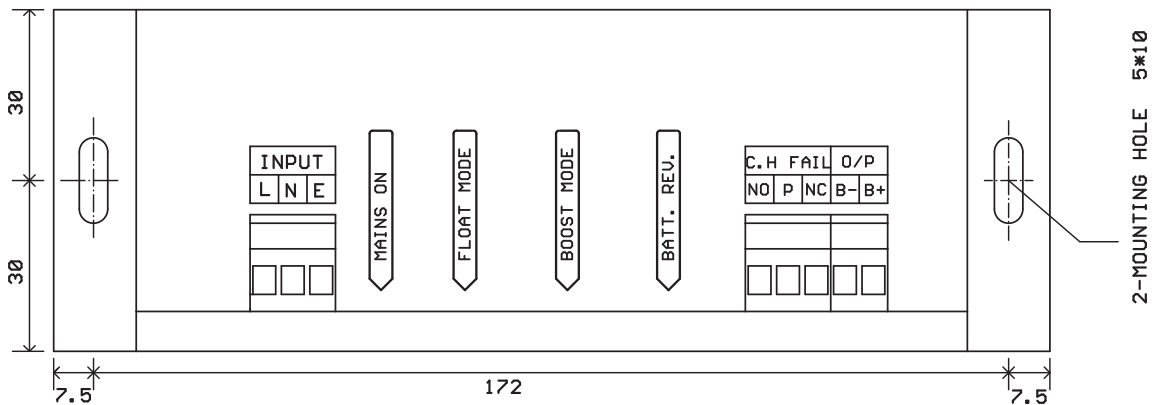
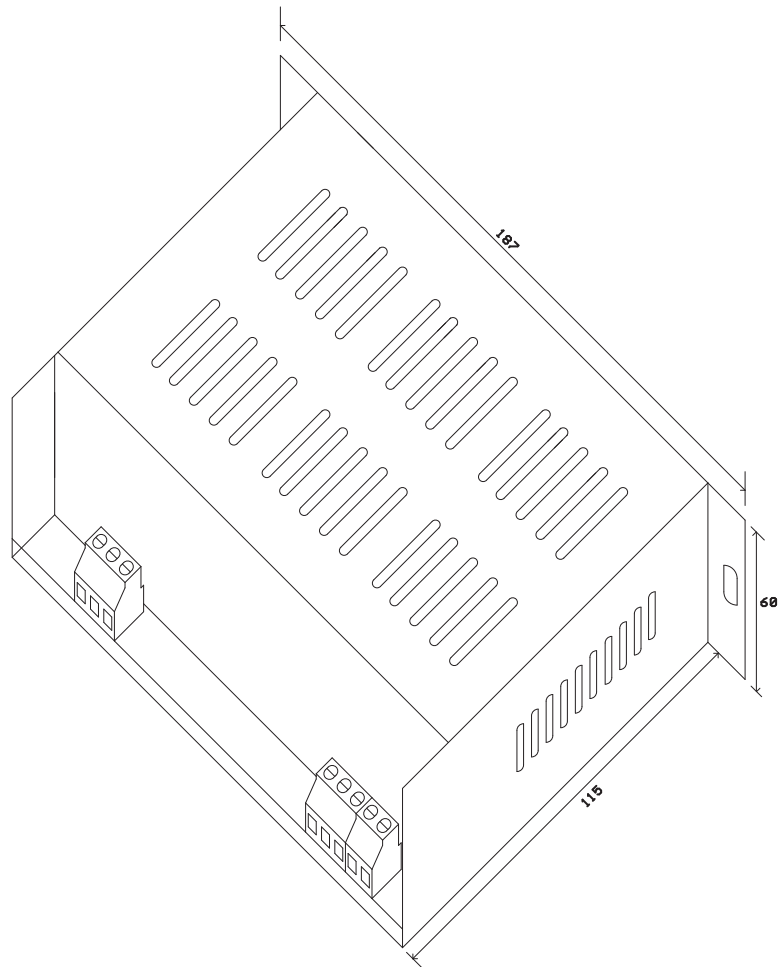
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DIMENSIONAL DETAILS



NOTE : ALL DIMENSIONS ARE IN MM

SMPS | DC DC Converters | Adapters | PoE Injectors & Splitters | Battery chargers | Battery Backup Systems
 LED Drivers | OVP | AVR | Relay I/O Modules | Protection Relays | Surge Protectors | Inverters | Fan Controllers