



## Lithium Battery Chargers for Small Battery Packs for EVs /Solar / Medical 24 Volts 3 Amps, 12 Volts 5 Amp

iDB Power Solution Private Limited 's Lithium (LFP/NMC) Battery Chargers for EV's, Solar and Medical devices etc. are latest SMPS technology product and for Lithium Batteries (NMC / LFP ) these have three stage charging profile (CC – CV – with Charge Termination Timer and current threshold). These chargers have high power factor and can provide charging even at very low input voltage (up to 150 V). It has an attractive LED system for indicating charge status of the battery. On completion of the charging of the batteries, LEDs start Flashing and it automatically disconnects the main power supply at voltage set based on Battery Chemistry and the Battery Cell Configuration. These chargers have robust safety features.

### Salient Features:

- Charging Current and Voltage profile optimized for Lithium Battery Packs (LFP & NMC) ..
- High Efficiency with Power Factor Correction to reduce Power Consumption from Mains..
- High charging current even at low mains voltages (as low as 150 v) for faster charging. Excellent Feature for Power deficient regions.
- Electronic Reverse Battery Protection – enhanced safety features .
- Two LEDs to indicate main Power Supply and Charging Status.
- Compact size for easy handling.
- Rugged Powdered metal enclosure

## Specifications



AC Input	
AC Input Voltage (Nominal/ Range)	230 V / 150VAC±10V to 280VAC±10V
Input Power Factor / Frequency	High Power Factor / 40Hz to 60 Hz
DC Output	
DC Output Voltage	12 Volts to 31 Volts Set depending on Cell Chemistry / Configuration / Selected Nominal Voltage
DC Output Current	05 Amp ± 0.1A for 12 Volts & 03± 0.1A for 24 Volts Models respectively
Peak Efficiency	89 %
Charging Profile	CC – CV – with Charge Termination Timer and current threshold
Protections – Safety Measures	
<ul style="list-style-type: none"> <li>➤ <u>MAINS VOLTAGE PROTECTION</u> Withstand up to 280V AC RMS.</li> <li>➤ <u>Over Load Protection</u> Electronic</li> <li>➤ <u>THERMAL PROTECTION</u> By Controlling Current .</li> <li>➤ <u>REVERSE BATTERY PROTECTION</u> Electronically Protected – Charger will not start unless battery is connected in correct polarity</li> </ul>	
Visual Indication	
<ul style="list-style-type: none"> <li>➤ AC Input Present - Mains On Indication by LED</li> <li>➤ One LED Battery Charge Status - Full Glow when charging in Progress, Full Glow when Charging is completed</li> </ul>	
Environment	
<b>COOLING SYSTEM</b>	Very Well Ventilated Casing
Operating Temperature	0°C TO 45°C
Humidity	95% RH Non-Condensing
Weight & Dimensions	
Dimensions	W=75mm, H=60mm, L=150mm
Weight	1.0 Kg approx..
Enclosure	Aluminium Metal Cabinet