

iDB Power Solutions Private Linited

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Lithium Battery Chargers for EVs (E-Scooter, E-Bike, E-2-Wheelers) 48 V 7 Amps,

60 V 6 Amp and 72 Volts 5 Amps iDB Power Solution Private Limited 's Lithium (LFP/NMC) Battery Chargers for E-Scooters, E-Bikes, E-2-Wheelers 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 (89%) and can provide charging even at very low input voltage (up to 110 V). It has an attractive LED system for indicating charge status of the battery / Informative Battery Bar Graph . On completion of the charging of the batteries, LEDs get steady 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) for E-Vehicles applications.
- High Efficiency with Power Factor Correction to reduce Power Consumption from Mains..
- High charging current even at low mains voltages (as low as 110 v) for faster charging. Excellent Feature for Power deficient regions.
- Electronic Reverse Battery Protection enhanced safety and avoid inconvenient fuse replacement in case of accidental reverse connection.
- Informative Battery Bar Graph and Mains indication along with audio alarms.
- Compact size for easy handling.
- Rugged Aluminium metal enclosure

Specifications



AC Input Voltage		Nominal: 230 V / Range: 120VAC±10V to 280VAC±10V
Power Factor / Frequency		Active PF Power Factor Correction >0.95 / 40Hz to 60 Hz
DC Output		
DC Output Voltage	52 Volts to 85 Volts - Set depending on Cell Chemistry / Cell Configuration / BMS Setting	
DC Output Current	7 Amp ± 0.5 A / 6 A ± 0.5 A / 5A ± 0.5 A	
Peak Efficiency	89 %	
Charging Profile	(CC-CV) with Charge Termination Timer and current threshold	
THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	-	

Protections

- MAINS VOLTAGE PROTECTION Withstand up to 320V AC RMS.
- MAINS OVER CURRENT PROTECTION By FUSE, in case of abnormal condition
- THERMAL PROTECTION Electronically protected with internal sensor.
- REVERSE BATTERY PROTECTION Electronically Protected Charger will not start unless battery is connected in correct polarity

Visual Indications

- AC Input Present Mains Nominal Indication
- 4 LED Battery Charge Status Bar Graph
- > Fault Indications by LED Blink
- Battery Too Low, Battery Too High, Abnormal High Current
- Over Temperature / Fan Failure, Mains Abnormal

Audio Indication (Buzzer)

- Battery Connect, Charging Completion Intermittent Beeps
- Mains Failure or any Fault Long Beep

Environment		
COOLING SYSTEM	Forced Air Cooled	
Operating Temperature	0°C TO 45°C	
Humidity	95% RH Non-Condensing	
Weight & Dimensions		
Dimensions	W=200 mm, H=120 mm, L=320 mm	
Weight	1.9 Kg approx	
Enclosure	Aluminium Metal Cabinet	