



SHAKTI EV CHARGER



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ABOUT THE PRODUCT

The Shakti EV Charger is a powerful and efficient solution for charging electric two-wheelers and three-wheelers, proudly designed and developed in India. It operates on a single-phase mains supply, with near to unity power factor and low THD in current which ensures high energy efficiency. The charger is capable of charging both lithium-ion and lead-acid batteries, with settings configured via CAN communication protocol & Shakti EV software.

KEY FEATURES

1. Battery reverse polarity protection.
2. Operate at unity power factor which makes it energy efficient.
3. Better charging profiles to improve battery health.
4. LED indications for different charging levels, faults and warnings.
5. Audio alarm during power on.
6. Beep sound on full battery charge.
7. Portable with easy handling.
8. Automatically protects the battery from over charging.
9. Compatible with all commercial batteries available in the market.
10. No battery connected detection.

PROTECTIONS

1. Input under/over voltage protection.
2. Output under/over voltage protection.
3. Output over current protection.
4. Over temperature protection.
5. Short circuit protection.
6. Reverse polarity protection.

APPLICATIONS

1. Perfect for vehicles such as electric scooters and e-rikshaw.
2. Suitable for charging different types of batteries(Lead acid/ Lithium ion).

BENEFITS

1. Promotes Sustainability.
2. Energy efficient and cost saving.

SPECIFICATIONS

Parameters	SHAKTI EV CHARGER								
	86-01	86-07	86-08	86-05	86-11	86-12	86-26	86-16**	86-15**
	1.2 kW	1.5 kW		750 W	900 W			3 kW	
INPUT PARAMETERS									
Input Voltage	190V-265V							200V-265V	
Input Current	≤ 7A	≤ 9A		≤ 5A	≤ 6A			≤ 16A	≤ 16A
Input Frequency	50Hz								
Power Factor	> 0.98								
Efficiency	>92%							>91%	
OUTPUT PARAMETERS									
Output Voltage Range	40V-72V	40V-72V	56V-84V	40V-60V	47V-73V	57V-84V	40V-60V	47V-73V	40V-60V
Maximum Output Current	20A	25A	20A	12A	12 A	10.5 A	15 A	50A	50A
Output Power	1200W	1500W		720W	876 W		900W	3000W	3000W
Output Ripple Voltage	< 1%							< 1%	
Line Regulation	< 2%							< 3%	
Load Regulation	< 2%							< 3%	
USER INTERFACE & COMMUNICATION									
Indicator	LED								
Audio Indicator	Buzzer			NA					
Communication	CAN, UART								
PHYSICAL									
L X W X H	260 x 185 x 90mm ³			291 x 134 x 93mm ³			270 x 265 x 110mm ³		
Net wt. / Gross wt.	Approx 3.5 Kg							Approx 5 Kg	
OTHER INFO									
Operating Temperature	0 to 50 °C			- 5 to 55 °C			0 to 50 °C		
Relative Humidity	0-95% RH(Non-condensing)								
Noise	< 45 dB								
IP Degree of Protection	IP 20			IP67					
Output Connector*	SB50 without CAN, SB75 with CAN							SB75 with CAN	
Cooling	Air Forced Cooling								

*Output connector can be customised as per user requirements

** upcoming product