

SHAKTI DC-DC CONVERTER



ABOUT THE PRODUCT

The Shakti DC-DC Converter is a high-performance power module designed for Electric Vehicle (EV) applications. It efficiently converts the EV battery voltage, ranging from 36V to 86V DC, into a stable 12V DC output capable of supplying up to 10A of current. This converter provides reliable power for auxiliary systems such as lighting, horn, cluster, etc. Built with advanced protection features including over-voltage, over-current, and thermal safeguards. The Shakti DC-DC Converter delivers reliable, efficient, and stable power conversion, ensuring safe operation even under harsh automotive and high-transient EV conditions.

SPECIFICATIONS

Specifications	
Input (DC)	
Voltage	36V-86V
Current	3A
Maximum Power	130W
Output (DC)	
Voltage	12V
Peak Current	10A
Continous Current	8A
Maximum Power	120W
Efficiency	
Max Efficiency	> 90%
Protection	
Input Under Voltage	YES
Over Temperature	YES
Output Over Current	YES
Output Under Voltage	YES
Output Over Voltage	YES
Short Circuit Protection	YES
Ingress Protection	IP65
General Data	
Cooling Method	Natural Cooling
Mounting	Vertical (tentative)
Operating Temperature Range	(-30°C to +60°C)
Dimensions (L*W*H)	123.7 x 50 x 40.9 mm ³
Net Weight	200gm
Topology	Synchronous Buck

TOLL FREE NO. 1800 103 5555

SHAKTI EV MOBILITY PRIVATE LIMITED

Address : Plot No.4, Integrated Industrial Area, Pithampur Sector-5, Dhar Road, Pithampur, District Dhar - 454774 Madhya Pradesh
Tel : +91 7292 410500, Email: info@shaktiev mobility.com, www.shaktiev mobility.in

Group Company - **SHAKTI PUMPS (INDIA) LIMITED**
www.shaktipumps.com

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