INJECT SOLAR

DATASHEET- DC-DC CONVERTER

Document Name	**DC-DC Converter Datasheet**
Hardware Name	**DC-DC Converter**
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1. Introduction

The DC-DC converter is a product offering within the Power Electronics category/segment of Inject Solar's EV division. The Low Voltage (LV) battery is no longer charged by the alternator; instead, it is charged from the high-voltage (HV) battery pack. To facilitate this, a standard DC-DC converter is employed to provide power to various electrical loads in vehicles, including infotainment systems, instrument clusters, headlights, and safety systems, while also recharging the LV battery.

Inject Solar is widely recognized for its established reputation and extensive experience in manufacturing highly reliable, cost-effective indigenous converters. Our expertise allows us to design custom solutions by leveraging cutting-edge technology and adhering to standardized production processes.

Localized in India and **aligned with the PLI scheme for fame subsidy**.

2. Specification of Converter

Parameters	Specifications
Input Voltage Range	30 to 85 Vdc
Output Voltage Range	14Vdc, 28Vdc
Power Output Range	120 - 360 watt
Features	CC-CV mode for clean power and protection for abruptly cut-off
Efficiency	>95%
Electrical Protection	OVP, UVP, SCP, Reverse Polarity Protection
Protection Level	IP67
Standards	ISO7637, AIS004, CISPR25
Operating Temperature	-20 ^{o} C to +60^{o} C

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