INJECT SOLAR

DATASHEET- INVERTER

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Hardware Name	**Inverter**
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1. Introduction

The high-voltage inverter plays a pivotal role in the electric vehicle's operation. It functions by converting direct current (DC) received from the high-voltage (HV) battery into alternating current (AC) to power the traction drive motors, propelling the vehicle. Additionally, during regenerative braking, it offers a reverse mode capability where it can extract kinetic energy from the vehicle and transform it into electrical energy for storage in the battery.

Inject Solar's EV Group is actively engaged in the development of advanced inverters to support automotive plug-in hybrid (PHEV) and battery electric (BEV) applications. These advanced inverters are engineered to meet the specific requirements and demands of modern electric vehicles, further enhancing their performance and efficiency.

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

2. Specification of Inverter

Parameters	Specifications
Input Voltage Range	40 to 60 Vdc
Output Voltage	24Vac, 3-phase
Output Power	5 - 12 kW
Standards	ISO7637, AIS004
Operating Temperature	-20 ^{o} C to +60^{o} C

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