

DC-DC CONVERTER



Description

The 120 W and 240 W DC-DC converters are designed for electric vehicle auxiliary power applications requiring high efficiency, compact size, and reliable performance. The converters operate from a wide battery input range and deliver regulated low-voltage DC output with efficiency exceeding 94%. Advanced synchronous switching topology minimizes power loss and improves thermal performance.

Features

- **Wide input voltage range**
- **High Efficiency**
- **Non-isolated synchronous buck topology**
- **Low Ripple & Noise**
- **Wide Operating Temperature: -40°C to +65°C**



Protections

- **Reverse Voltage Protection**
- **Short Circuit Protection**
- **Over Temperature protection**
- **Input Undervoltage**

Applications

- **Reverse Voltage Protection**
- **Short Circuit Protection**
- **Over Temperature protection**
- **Input Undervoltage**

Parameter	120W	240W
Operating Input voltage	30 – 60V	30 – 60V
Input Current	Max 4A	Max 8A
Output voltage	12.33V	12.33V
Output Max Current	10A	20A
Efficiency	>94%	>94%
Dimensions	66 x 67 x 30.5mm	83 x 83 x 38.5 mm

