

DESCRIPTION

Compatible with the Immersion Cooled Modular Battery Pack System, XING Mobility's DCDC Converter Kit allows existing 12V vehicle systems (including pumps, lighting, fans) to be converted to power from the high voltage battery pack. Providing stable power from the Power Distribution Unit to the 12V Battery, the kit is equipped with a range of monitoring and safety functions. equipped with a range of monitoring and safety functions.

KEY FEATURES

- Highly compatible with immersion cooling battery technology
- Wide input voltage range of 200 VDC to 480 VDC
- Warning sensors for over voltage and low voltage
- High levels of protection against over-heating



TECHNICAL SPECIFICATIONS

| FEATURES | PARAMETER | TECHNICAL DATA |
|--|--|---|
| KEY SPECIFICATIONS | Input Voltage Range | 200 VDC - 480 VDC |
| | Constant Output | 14 VDC / 135 A |
| | Output Voltage | 10 VDC - 16 VDC |
| | Constant Power Output | 2 kW |
| | Peak Power Output | 2.4 kW |
| | Warning Sensor Functions | 1. Input- over/low voltage protection. 2. Output - over voltage, over current, short circuit protection. |
| DIMENSIONS AND WEIGHT | Dimensions (L x W x H) | 262 x 203 x 112 mm |
| | Weight | 7 kg |
| INPUT SPECIFICATIONS | Minimum Operating Voltage | 200 V |
| | Constant Operating Voltage | 336 V |
| | Maximum Operating Voltage | 480 V |
| | Constant Current | 11 A |
| | | |
| INPUT OVER VOLTAGE PROTECTION | Minimum Voltage Point | 485 V |
| | Constant Voltage Point | 490 V |
| | Maximum Voltage Point | 500 V |
| | Over Voltage Protection Recovery Point | 480 V |
| INPUT LOW VOLTAGE PROTECTION | Minimum Voltage Point | 185 V |
| | Constant Voltage Point | 185 V |
| | Maximum Voltage Point | 190 V |
| INPUT LOW VOLTAGE PROTECTION RECOVERY | Minimum Voltage Point | 190 V |
| | Constant Voltage Point | 195 V |
| | Maximum Voltage Point | 200 V |
| OUTPUT VOLTAGE | Minimum Output Voltage | 10 V |
| | Constant Output Voltage | 14 V |
| | Maximum Output Voltage | 16 V |
| | Constant Output Current | 135 A |
| | Maximum Output Current | 170 A |
| OUTPUT LOW VOLTAGE PROTECTION RECOVERY | Minimum Voltage Point | 16 V |
| | Constant Voltage Point | 16.5 V |
| | Maximum Voltage Point | 18 V |

| FEATURES | TECHNICAL DATA | XING Mobility DCDC Converter Kit |
|----------------------|----------------------------|----------------------------------|
| OVER HEAT PROTECTION | Over Heat Protection Range | 105°C to 115°C |
| ADDITIONAL FUNCTIONS | Communication | CAN /Analog |
| | Cooling Method | Air-Cooled |

OPERATING CONDITIONS

| PARAMETER | OPERATING CONDITIONS |
|-----------------------------|---------------------------|
| Operating Temperature Range | -40°C to 70°C |
| Storage Temperature Range | -40°C to 85°C |
| Operating Humidity Range | 5% - 95% (No Dew Deposit) |
| Storage Humidity Range | 5% - 95% (No Dew Deposit) |

INPUT/OUTPUT DIAGRAM

- 1 High Voltage Input
- 2 Signal Connector
- 3 4 12VDC Output

