

HKDC- F_{series} 500W DC-DC Converter Technical Specifications

HKDC- F Series 500W DC-DC converter is designed for low-voltage power supply design of electric vehicle products. The product not only has high efficiency, small size, high stability, long life and other advantages, but also has a high degree of protection. Its highly reliable, full-featured protection and other features is ideal for low-voltage power supply of the electric vehicle. The power module is built-in thermal sensing device having thermal shutdown and automatic recovery. Fully sealed encapsulation process, up to IP67 protection class, you can ensure that in any complex environment without causing failure.

Main features: Full casting process, natural cooling conditions can -40 - + 60 °C work reliably under conditions

Built-in temperature sensor in hazardous operating conditions (internal 90 °C) off output

Degree of protection IP67 can be short-term immersion in work safety conditions

● Specifications

| | | FDC-MV-13V8- AH(Battery Pos. Enable) |
|------------------------|---|---|
| I N P U T | Input voltage range | DC64~133V |
| | Frequency | Direct-current |
| | Effectiveness | ≥90% 500W |
| | Input reverse polarity protection | No |
| | Input Overvoltage Protection | 133V |
| | Input Undervoltage Protection | 64V |
| | Input fuse | When you use need to input by adding a fuse |
| | Applicable Battery System | 80~96V Battery System |
| | Static Power | load current is less than 0.3A continued 10 Minutes into power-saving mode, Standby Power ≤0.5W |
| O U T | Output Method | Constant / Constant |
| | Output Current | maximum 50A |
| | Constant Current Accuracy | ±4% |
| | Constant Output Voltage | 13.8V |
| | Constant Accuracy | ±1% |
| | P-p ripple voltage | 200mV |
| Overvoltage Protection | Output > 16.0V Overvoltage Relay, Abnormalities disappear from the new starting power to resume normal work | |

| | | |
|-------|----------------------------|---|
| OTHER | ISOLATION | Input to ground:500VDC \leq 10mA Input to output : 500VDC \leq 10mA Output to ground:500VDC \leq 10mA 500VDC Insulation resistance \geq 10M Europe |
| | Protection Class | IP67 |
| | Operating Temperature | -40 $^{\circ}$ C ~ +60 $^{\circ}$ C |
| | Storage Temperature | -55 $^{\circ}$ C ~ +85 $^{\circ}$ C |
| | Overtemperature Protection | Module temperature reaches 90 Degree stop working, After cooling, the power supply automatically resume normal operation |

● Dimensions

