ElCon

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 □ 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 0.3Acontinued10 Minutes into power-saving mode , Standby Power ≤ 0.5W
O U T P 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≤ 10mA
		Input to output： 500VDC≤ 10mA
		Output to ground:500VDC≤ 10mA
		500VDCInsulation resistance≥ 10M Europe
	Protection Class	IP67
	Operating Temperature	－40℃ ～ ＋60℃
	Storage Temperature	－55℃ ～ ＋85℃
	Overtemperature Protection	Module temperature reaches 90 Degree stop working，After cooling, the power supply automatically resume normal operation

● **Dimensions**

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