

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

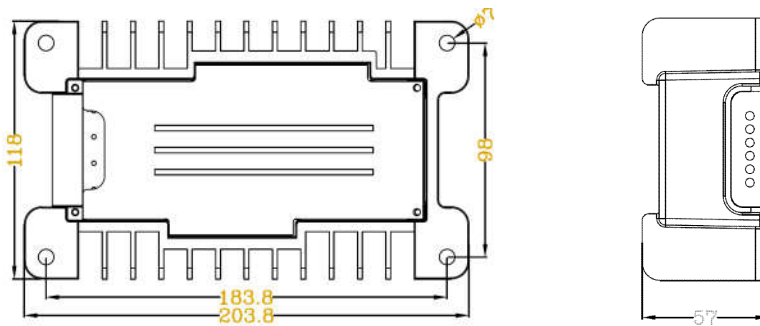
Degree of protection IP67 can be short-term immersion in work safety conditions

● Specifications

		FDC-LV-13V8-AH (Battery Pos. Enable)
I N P U T	Input voltage range	DC30~100V
	Frequency	Direct-current
	Effectiveness	≥90% 500W
	Input reverse polarity protection	No
	Input Overvoltage Protection	100V
	Input Undervoltage Protection	33V
	Input fuse	When you use need to input by adding a fuse
	Applicable Battery System	48~72V 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

O T H E R	I S O L A T I O N	Input to ground: $500\text{VDC} \leq 10\text{mA}$ Input to output : $500\text{VDC} \leq 10\text{mA}$ Output to ground: $500\text{VDC} \leq 10\text{mA}$ 500VDC Insulation resistance $\geq 10\text{M}$ Europe
	Protection Class	IP67
	Operating Temperature	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
	Storage Temperature	$-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$
	Overtemperature Protection	Module temperature reaches 90°C stop working, After cooling, the power supply automatically resume normal operation

● Dimensions



● Wiring Diagram

