

Product Overview	
Product name	Energy cell 5 Battery module
Parameter	Specification
Product Type	Low voltage LFP battery pack
Model Name	EC-FE5148
Battery Type	Lithium Iron Phosphate (LFP)
Nominal Energy Capacity	5.12kwh
Usable Energy (DoD %)	100% (80% recommended)
Nominal Voltage	51.2Vdc
Voltage Range	44.8~57Vdc
Nominal Capacity	5.12kwh
Continuous Charge/Discharge Power	5kw(2.5kw recommended)
Peak Power (Duration)	7.68kw(2 seconds)
Round-Trip Efficiency	TBD
Communication Protocols	RS485 and CAN
Battery Management System (BMS)	
Electrical characteristics	
Charge Voltage Range	56.0+/-0.8Vdc
Discharge Cut-off Voltage	44.8Vdc
Max Continuous Charge Current	100Adc(50Adc recommended)
Max Continuous Discharge Current	100Adc(50Adc recommended)
Max Parallel Units	16 Energy cell 5 Battery modules, 2 Energy cell 5 combiner box
Protection Features	
Recommended Charging/discharging rate	0.5C
Short circuit protection	>250Adc for 0.1ms
Breaker ratings	
Battery Breaker	125Adc
Interrupt current rating	10kA
Clearing time	
Enviromental specifications	

Storage Temperature Range	32°F~113°F(0°C~45°C)
Humidity Range	0-95%
Altitude	2000M**
Cooling Method	Natural convection
Dimensions (W — H — D)	16.93* 29.13* 7.19in(430*740*182.5mm)
Operating Temperature Range	-4°F ~131°F(-20°C~55°C)
Mechanical specifications	
Weight	132.28 lb(60 kg)
Enclosure Rating	IP65
Mounting Options	Floor mounted
Display / Indicators	Led's
Connector Type	Quick connects
Certifications and compliance	
	UL 1973
	UL 9540 DC ESS
	UL9540A
	UN 38.3
Protection Class	TBD
Warranty and lifecycle	≥8000 (0.5C@25°C, 80%DOD) 10 years
Cycle Life (70% EOL capacity)	8000
Calendar Life	10 years
Compatible inverters	
Inverter Models	TBD
Application Type	TBD
Product name	Energy cell 5 Battery combiner box
Parameter	Specification

Product Type	LV Stackable Control Module/Head
Model Name	EC-FE5148-CM
Voltage Range	44.8~57Vdc
Max Continuous Current	250A dc
Operating voltage	56Vdc
Environmental specifications	
Storage Temperature Range	32°F~113°F(0°C~45°C)
Humidity Range	0-95%
Altitude	2000M
Cooling Method	Natural convection
Dimensions (W — H — D)	16.93* 29.13* 7.13in(430*740*181mm)
Operating Temperature Range	-4°F ~131°F(-20°C~55°C)
Mechanical specifications	
Weight	39.68 lb(18 kg)
Enclosure Rating	IP65
Display / Indicators	Led's

Product Type	LV Stackable Base
Model Name	EC-FE5148-B
Weight	24.25 lb(11 kg)
Dimensions (W — H — D)	16.93* 29.13* 6.87in(430*740*174.51mm)