

F02 SERIES Rack-mounted

Home Energy Storage Lithium Battery



Product Introduction

The product features a rack-mount design compatible with 19-inch cabinets; supports all mainstream inverter communication protocols on the market; and employs comprehensive, multi-level battery protection strategies and fault isolation measures to ensure safe system operation. Widely used in communication backup power applications and home energy storage systems, it delivers an exceptional power usage experience for users.



Ultra-high energy density design saves user space

20
Parallel

Supports 20 units in parallel to meet the power needs of users



Bluetooth configuration, flexibly adjust power requirements

19 in

Can be built into a 19-inch rack



Massive protocol library supporting all mainstream inverter models on the market



Model: WKC	F02-51.2100	F02-51.2200
Nominal Voltage (V)	51.2	
Cell Specification (Ah)	100	
Nominal Capacity (Ah)	100	200
Nominal Energy (kWh)	5.12	10.24
Operating Voltage Range (V)	44.8-58.4	
Recommended Charging Voltage (V)	56.8	
Recommended Discharge Cut-off Voltage (V)	44.8	
Maximum Charging Current (A)	50	100
Maximum Discharging Current (A)	50	100
Cycle Life	6,000 cycles (0.5C, 90% DOD, 25°C)	
Enclosure Dimensions (W*D*H) mm	440*550*140	530*720*140
Weight (kg)	43	82
Communication Method	CAN/RS485/Bluetooth/WiFi	
Number of Parallel Units	20 units	
Permissible Humidity Range (%RH)	15-85	
Storage Ambient Temperature (°C)	-20~60 (Recommended 10~35)	
Charging Ambient Temperature (°C)	0~50 (Recommended 10~35)	
Discharging Ambient Temperature (°C)	-10~60 (Recommended 10~35)	
Altitude (m)	< 3000	
Protection Rating	IP20	
Cooling Method	Natural air cooling	
Operating Conditions	Indoor	
Protection Method	Overvoltage, undervoltage, pressure differential, overtemperature, capacity, short circuit, communication failure, etc.	
Certification	UN38.3, MSDS, CE	

Note: The above data are for reference. In case of any changes, no further notice will be given. For special customization requirements, please contact the equipment manufacturer.