

02 | BATTERY ENERGY STORAGE PRODUCTS

▸ Rack-mounted Residential ESS

▸ Features & Advantages



Safety

LFP Battery, Intelligent BMS and protective hardware providing complete protection



Accuracy

Dynamic SOC calibration



Compatibility

Suitable for most mainstream inverters



Flexibility

Could be connected in parallel or series



Durability

6,000 cycles at 90% DOD, 15+ years design life



Certificates

UL, CE, IEC62619, UN38.3, MSDS



▸ Technical Specifications

Model	PowerCool-LFP-2400/U
Battery Type	LFP
Total Energy	2.4kWh
Usable Energy	2.2kWh
Voltage	51.2V
Cell capacity	4Ah
Max. parallel connection number	8S/8P
Max. charging voltage	57.6V
Nominal charging current	30A
Nominal discharging current	40A
Discharge cut-off voltage	48V
Battery efficiency	92%
Max. recommended DOD	90%
Communication	RS485/CAN
IP rating	IP20
Operating temperature	-10 ~ 50°C
Cooling Type	Natural cooling
Altitude	≤5,000m
Humidity	5%~60%(No condensed water)
Battery Protection	Over-current/Over-voltage/Short-circuit/Under-voltage/Over temperature
Warranty	10 years
Dimension	500*442*133mm
Net weight	27.5kg
Case Material	Metal
Color	Black
Installation	Ground Installation

Testing conditions based on temperature 25°C at the beginning of life.

*Total Energy/Usable Energy measured under specific conditions from PowerCool-LFP 0.2C CC-CV