

SOLAR BATTERIES



Solar batteries have 15-20 years designing life and ideal for standby or frequent cyclic discharge applications under extreme environments.

Lithium batteries are supported to latest HESS battery system.

All batteries are high energy, high power density, long service life and smart designs as per advanced techniques.



Ordering Information

Order No	Model No	Product	Type	Voltage	Ampere
299 100	SP48100	Lithium Battery	Rack type	48V	100AH
299 101	SP5000U	Lithium Battery	Power wall type	48V	100AH
299 200	6-CNF-100	Deep Cycle Gel Battery		12V	100AH

Technical Specifications

Model No.	SP48100
Nominal Voltage	48V
Nominal Capacity	4800Wh
Dimensions (LxWxH)	442×480×220mm
Weight	48kg
Discharge Voltage	45-54V
Charge Voltage	52.5-54V
Max Discharge Current	100A
Max Charge Current	100A
Communication	RS32, RS485, CAN
Charging Temperature	0°C-50°C
Discharging Temperature	-10°C-50°C
Shelf Temperature	-20°C-60°C
Certification	IEC/CE/UN38.3
Design life	10+ Years(25°C/77°F)
Cycle Life	>6000(80%DoD)

Model No.	SP5000U
Voltage	48V
Capacity	100Ah
Energy	4.8 kWh
Operation Voltage	42-54 Vdc
Max. Charging Voltage	54 Vdc
Max. Charging and Discharge Current	100A
Max Power	4800 W
Life Time(25°C)	10 years
Life Cycles(80% DOD,25°C)	6000 Cycles
Storage time / Temperature	5 months @ 25°C; 3 months @ 35°C; 1 months @ 45°C
Operation Temperature	-20°C to 60°C @ 60+/- 25% Relative Humidity
Storage Temperature	0°C to 45°C @ 60+/- 25% Relative Humidity
Lithium Battery Standard	UL 1642, IEC62619, UN38.3, ROHS, CE-EMC
Enclosure Protection Rating	IP21
Dimenslone(LxWxH)	680x480x180(220)mm
Weight	58.5 kg

Model No.	6-CNF-100
Cells Per Unit	6
Voltage per Unit	12
Capacity	100Ah @ 20hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 30.0 Kg (Tolerance±2%)
Internal Resistance	Approx. 7.5 mΩ
Terminal	F12(M8) / F5(M8)
Max. Discharge Current	1000A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	20.0A
Reference Capacity	C3 68.1AH C5 78.5AH C10 87.7AH C20 100.0AH
Float Charging Voltage	13.6 V ~ 13.8 V @ 25°C Temperature Compensation:- 3mV1°C / Cell
Cycle Use Voltage	14.2 V ~ 14.4 V @ 25°C Temperature Compensation:- 4mV1°C / Cell
Operating Trmperature Range	Discharge:- 40°C ~ 60°C Charge:- 20°C ~ 50°C Storage:- 40°C ~ 60°C
Normal operating Temperature Range	25°C ± 5°C
Self Discharge	Less than 3% at 25°C per month
Container Material	A.B.S UL94-HB, UL94-V0 Optional