



SHINEMAN POWER TECHNOLOGIES

Solar Battery System 48V Series





Application Scenarios

LiFePO4 battery is tailored for solar storage system and is a new generation of green energy with advantages of high energy density, ultra-long cycle life, well temperature property, excellent safety property, high reliability, suitable for large-scale station and residential energy storage system

Key characteristic

- High energy density: more energy with less weight and footprint
- High charge and discharge currents (short charge period)
- Long battery (up to 3 times the battery life of a conventional battery)
- High efficiency between charging and discharging
- Higher continual power available
- Wide operating temperature. Predictable end of life due BMS controller
- Choose different inverter protocol directly from software

Smart BMS Protection

- Cell voltage monitoring
- Charge/discharge current monitoring
- Hardware & Software double protection
- Discharge control
- Charge control
- Balance
- Temperature Monitoring
- Work Status Indication LCD & LED lamp
- PACK Voltage Monitoring
- Failure alarm
- Dry contact



LifePO4 BATTERY SPECIFICATIONS

BASIC SPECIFICATION

	2.4Kwh	4.8Kwh	7.2Kwh	9.6Kwh
Nominal Voltage [V]	48V	48V	48V	48V
Nominal Capacity [Ah]	50	100	150	200
Width [mm]	442	442	440	440
Height [mm]	130	222	265	265
Depth [mm]	400	400	520	520
Net Weight [Kg]	31kg	42kg	75kg	82kg
IP Level	22			

ELECTRICAL SPECIFICATION

Output Power [W]	2.4Kwh	4.8Kwh		
Voltage Window [V]	37.5~55.5			
Charge Voltage [V]	53.5~55.5			
Max. Charge / Discharge Current [A]	50A	100A		
Recommend Charge Current [A]	0.2C 10A	0.2C 20A	0.2C 30A	0.2C 40A
Charge Mode	CC-CV			
Scalability	15 PCS Up to 36Kwh/72Kwh/108Kwh/144Kwh			

OTHERS

Communication	CAN/ RS485/ RS232/ Dry Contact			
Charge Temperature	0 - 55 °C			
Discharge Temperature	-20 - 60 °C			
Temperature & Period Storage	12 Months @-10~35°C 3 Months @-10~45°C 7 day @-20~65°C			
Designed Life	10+Years			
Cycle Life	More than 6000 Cycles @25°C 0.2C 80%DOD			
Certification Standard	CE/UN38.3/ROHS			

