

1.SOLAR GENERATOR

This product uses 5016117 lithium iron phosphate cells for energy storage,combined in a 16S1p configuration to form a 51.2V/100Ah battery pack.The portable energy storage power supply is equipped with safety protections such as overcharging,overdischarging,overcurrent,short circuit,overtemperature,and overload.It can meet the charging needs of a wide range of electronic devices,including mobile phones,satellite phones,digital cameras,drones,car refrigerators,tablets,LED lights,laptops,outdoor lighting,medical equipment,etc.



Model: ARS - 5000

AC INPUT

AC OUTPUT



**Complete configuration,
Easy to install and move**



**High quality brand
power battery core,
8-10 years life span**



**Monocrystalline 5+A grade
PV panels**



**Built-in high-efficiency
PV energy collector**



**German PV inverter
system equipment plan**



**24 X 7
after-sales support**



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SPECIFICATION

Size:	478*433*600/688mm(After stretching)
Cell type:	IF50160117 lithium iron phosphate
Single cell and battery pack:	100Ah/3.2V; 100Ah/51.2V
Work modes:	Normal / ECO / BAT mode
Build-in inverter rated power:	5000W
Input voltage (VDC):	40-58.4V
PV input voltage range and rated current:	MPPT 120-450V,10A
PV input max power:	7000W
Output voltage:	AC 220V
Output frequency (Hz):	50 / 60Hz±5%
Start-up no-load current:	< 0.8A
Peak output power:	8000w
AC charging parameter input:	AC 95V - 285V
AC charging maximum input power:	2500W
Output waveform:	Pure Sine Wave
Harmonics:	< 5%
Conversion efficiency:	≥ 94%
DC output:	1. USB: 5V / 2.1A * 2;
	2. DC 5521 terminal: 12V / 4A * 2;
	3. TYPE-C * 2
LCD screen display:	Battery Power, AC input and Output Status
	and Voltage, Load Capacity, Frequency.
Noise:	< 45dB
Operating environment temperature:	0~50 °C
Storage environment temperature:	-20°C~ +65°C
Sixfold protection:	Input under-voltage, over-voltage, anti-reverse connection protection,
AC charging parameter input:	Output Overload,Over-Temperature,
	Short-Circuit Protection.



2.PACK & RACK BATTERY

This product features AC auto-start and lithium battery pre-charge functions, enabling the capability of parallel expansion with up to three units. It possesses high stability, reliability, and practicality, providing reliable backup power protection for critical equipment such as data centers and high-speed highway ETC gantry systems.

Upgraded Advantages

- High Degree of Product Integration, Meticulous Control Logic
- Wide Voltage Input Range
- Backend Energy Efficiency Management
Remote Monitoring of Operational Data
- Standardized, Modular, Systematic Design Philosophy
Facilitating Rapid Parallel Expansion
- Three-level BMS Protection Function
- Multi-Scenario Applications in Peak Shaving, Valley Filling,
Emergency Backup Power, and other Modes



**Safe
and
Reliable**



**3 Units
In Parallel
For Expansion.**



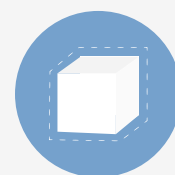
**AC
Auto-Start**



**Customized
BMS protocol**

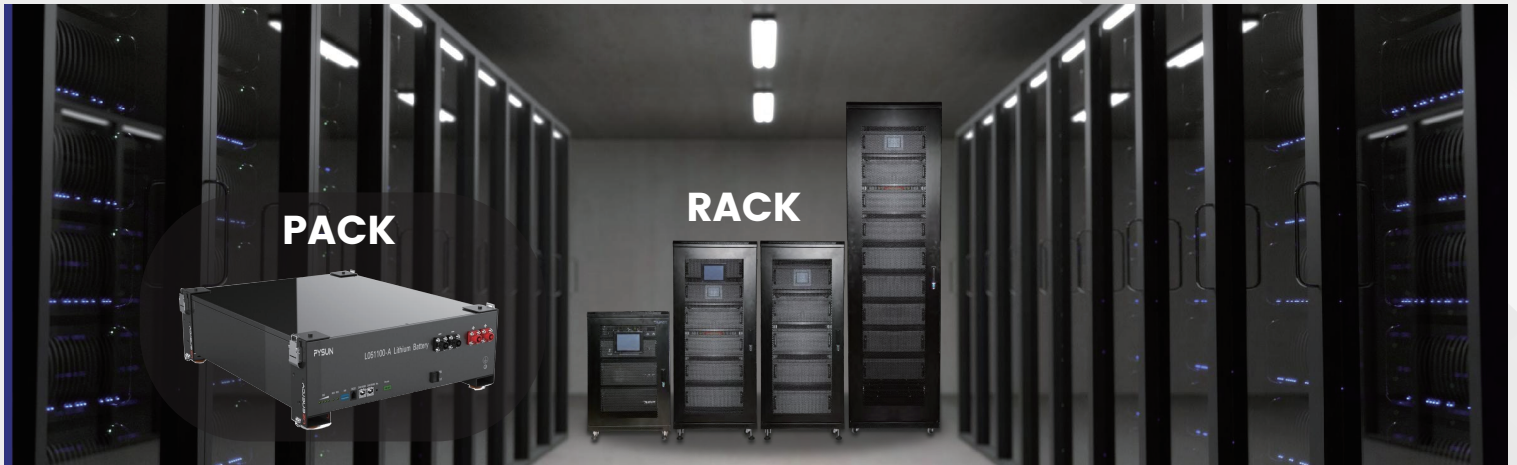


**Easy to
install and
maintain**



**Panel
can be
customized**





SPECIFICATION

Battery Power System:	192-50	192-100	384-50	384-100
Nominal Voltage:	192V	192V	384V	384V
Nominal Capacity:	50Ah	100Ah	50Ah	100Ah
Dimension(W*D*H)(mm)	600*	600*	600*	600*
	600*	800*	800*	800*
	1000	1400	1400	2000
Weight:	110KG	180KG	200KG	350KG
Charging Method:	CC/CP/VP			
Recharging Current:	0.2C standard 1C maximum continuous charging current			
Charge Cutoff Voltage:	438V/CELL			
Discharge Method:	CC/CP/VP			
Discharge Current:	0.5C standard 1.5C maximum continuous discharge current			
Discharge Cutoff Voltage:	324V/CELL			
Display:	LCD			
Communication Interface:	485/232/Can			
Operating Temperature:	Charging: 0~+50°C Discharging: -20~+55°C			
Storage Temperature:	Short-term storage: -10~+45°C (<3 months,SOC:20%~60%) Long-term storage: -10~+40°C (<1 year,SOC:30%~60%) Recharge every 3 months			
Storage Humidity:	5%~95%			
Shipping Status:	Voltage: 380~420V SOC: 30%~50%			



3. Lithium battery



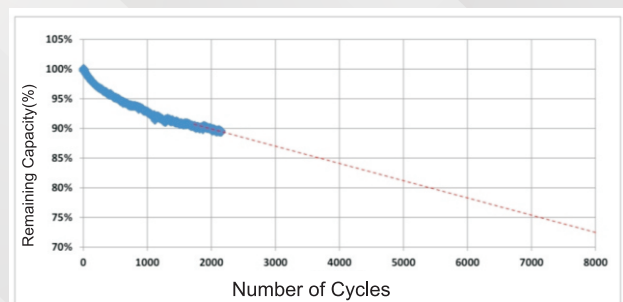
LFP100-12(12.8V100Ah)

LiFePO4 Battery-Advantage

- **Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.
- **Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- **Wider Temperature Range:** -20°C ~ 60°C.
- **Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging of short circuit situation.
- **Increased Flexibility:** Modular design enables deployment of up to four batteries in series and up to ten batteries in parallel.

Application

- Electric vehicles, electric mobility
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting



Specification

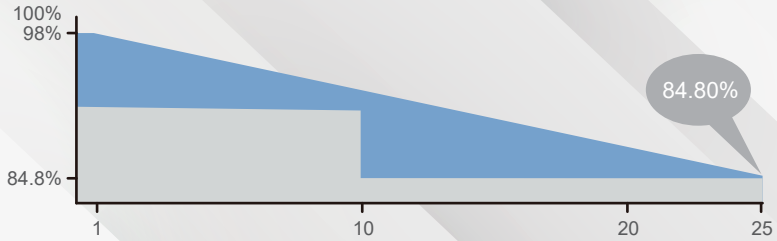
Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	100Ah / 150Ah / 200Ah (optional)
	Energy	1280Wh
	Internal Resistance	≤ 150mΩ
	Cycle Life	>2000 cycles @1C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	14.6 ± 0.2V
	Charge Mode	0.2C to 14.6V, then 14.6, charge current 0.02C(CC/CV)
	Charger Current	50A
	Max. Charge Current	100A
	Charge Cut-off Voltage	14.8V ± 0.2V
Standard Discharge	Continuous Current	100A
	Max. Pulse Current	300A(<3s)
	Discharge Cut-off Voltage	10V
Environmental	Charge Temperature	0 °C to 55 °C (32F to 113F) @60%±25% Relative Humidity
	Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60%±25% Relative Humidity
	Storage Temperature	0 °C to 40 °C (32F to 104F) @60%±25% Relative Humidity
	Water Dust Resistance	
Mechanical	Cell & Method	3.2V100AH-4S1P
	Plastic Case	ABS
	Dimensions (in./mm.)	332*176*221 mm
	Weight (lbs./kg.)	10.3Kg
	Terminal	M8
	Protocol (optional)	NO
	BMS	4S100A



4.SOLAR PANEL



PYSUN530~555M10
182mm 144Cells
Mono Half Cell PV Module Series



12 Years Materials and workmanship

84.8% Output Power guarantee **25** Years



MBB PERC
Half Cut Cell



5400Pa
Strengthened
Mechanical Load



Anti PID



100% Inspection
Guarantee Reliability



Excellent Low-light
Performance



High Density
Packaging

5.Solar Invertor



- Support 6 units in parallel
- Up to 200A charging current
- Time-solt charging & discharging
- Comprehensive protection
- Up to 99.9% MPPT tracking efficiency
- Simple to install and easy to use
- Support Li-ion battery BMS communication and BMS dual activation



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