



# SAIL SOLAR ESS Brochures



SAIL SOLAR ENERGY CO., LTD



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\*If the product information is updated or corrected, no separate notice will be given. The latest product information can be obtained directly by contacting our company

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# Company Profiles

SAIL SOLAR is located in Anhui, china, with <sup>16</sup> years energy storage experience, focuses on mid-to-high-end energy storage markets all over the world. As a high-tech company in solar photovoltaic and energy storage , SAIL SOLAR offers eco-friendly, smart, sustainable solar photovoltaic and energy storage solutions

To meet diverse market and customer needs, SAIL SOLAR has expanded its range to solar panel, off-grid and hybrid inverters, integrated storage systems etc.

SAIL SOALR is committed to providing customers with intelligent energy solutions, maximizing the use of green energy and makinopositive contributions to qlobal carbon neutral-ity.



Workers



Area



Global Footprints



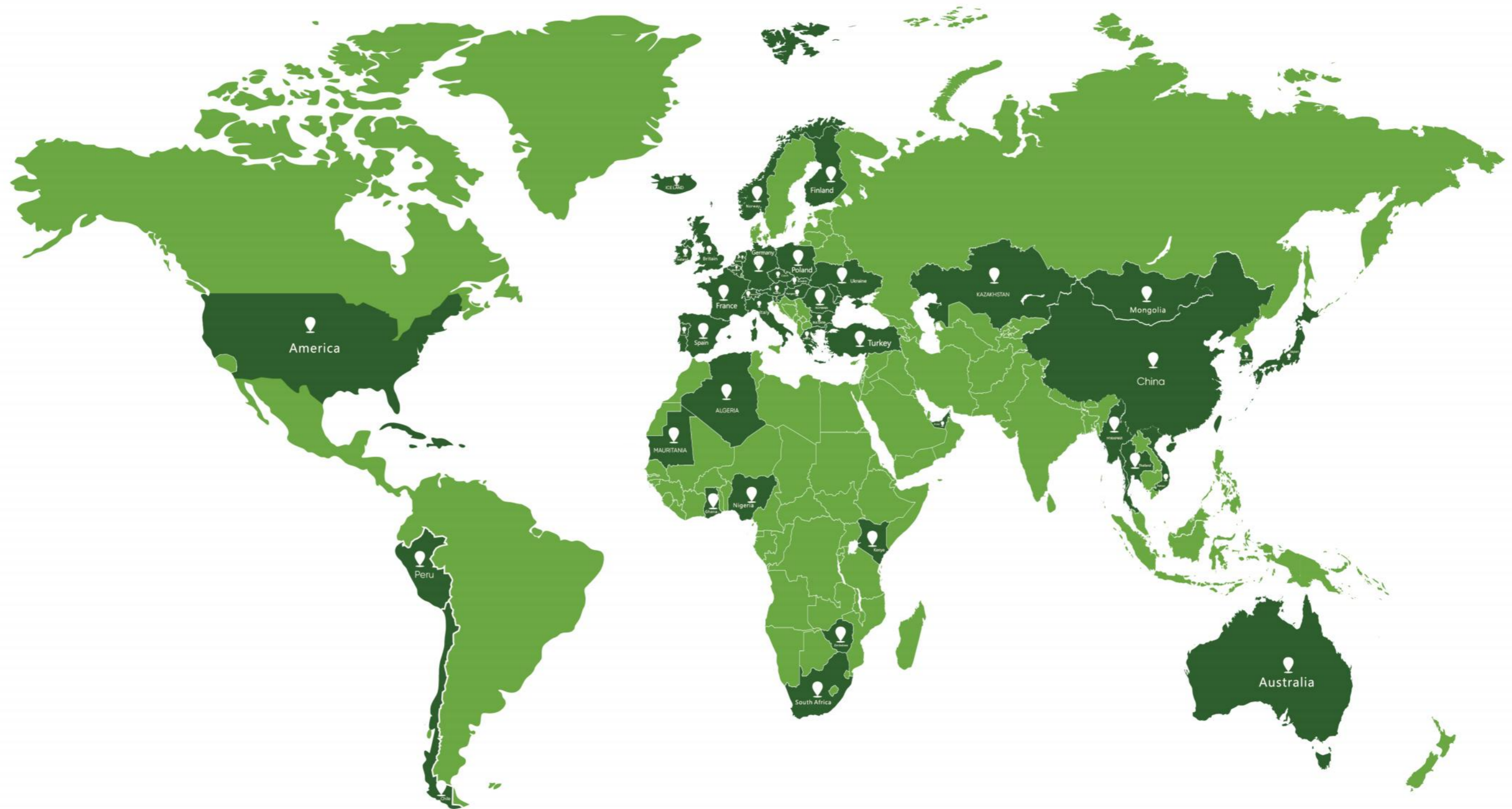
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Supply chain



# Global Layout



 Main Shipping Areas



# Lithium Battery LV

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X Series

Y Series

M Series

S Series

AIO Series

X Series

# Rack Lithium Battery Module



## Rack Lithium Battery Module

### DATASHEET

MODEL	SAS51100	SAS51200	SAS51314
Nominal voltage(V)	51.2		
Nominal capacity(AH)	100	200	314
Energy(KWH)	5.12	10.24	16.07
Internal Resistance	≤200mΩ		
Cycle Life	≥6000 ( 25℃±2℃, 0.5C / 0.5C, 90%DOD)		
Months Self Discharge	<3%		
Charge Mode	CC/CV		
Operating Voltage ( V )	43.2~57.6(Max discharge/Max charge)		
Max (Dis)charge Current(A)	100	200	200
Recommend (Dis)charge Current(A)	50	100	100(157 optional)
BMS(A)	100	200	200
Operating Temperature	Charge : 0 ~ 55℃ / Discharge : -20℃ ~ 55℃		
Water Dust Resistance	IP20(IP54 OPTIONAL)		
Cell & Method	3.2V100Ah-16S1P	3.2V100Ah-16S2P	3.2V314AH 16S1P
Protocol (optional)	RS232/RS485/CAN/BLUETOOTH/WIFI		
Safety & Certification	CELL:UL1642/UL1973/IEC62619/CE/CB/UN38.3/UL9540/ROHS/REACH		
Compatible Inverters	Deye/GoodWe/Solis/SAJ/Sinexcel/Hoymiles/Growatt/EcatuS/Sermatec/ATESS/Sunways etc.		
Neight Weight (kg)	47	88	110
Gross Weight (kg)	52	98	123
Size (mm)	550*482*133(D*W*H)	812*513*205(D*W*H)	740*482*222(D*W*H)
Package Size (mm)	652*542*205	900*560*384	900*560*384
Qty of Loading	300pcs 20ft/520pcs 40ft		120pcs 20ft/210pcs 40ft

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### Product Feature



#### • Safety and Intelligent

Long life LiFePO4 cells, high energy density, build in BMS and passive protection



#### • Adaptable to Harsh Environment

Adapt to wide range of temperature and humidity



#### • Easy to Install and Use

Modular design, simple operation



#### • Support Bluetooth/WIFI function (optional)

Can be controlled remotely to reduce operation and maintenance costs



#### • Long Life Span

10 years design life, more than 6000cycles



#### • Multi-scenario application

Household use, small industrial and commercial applications

X2 Series

# Rack Lithium Battery Module



## Rack Lithium Battery Module

### DATASHEET

MODEL	SAS51100-LZ	SAS51200-LZ	SAS51300-LZ
<b>BATTERY PARAMETERS</b>			
Rated voltage (V)	51.2		
Rated capacity (Ah)	100	205	314
Rated energy of battery (kWh)	5.12	10.49	16.08
Weight (kg)	48	95.8	125.8
Dimensions: L*W*H(mm)	440*440*133	675.8*478*278	838.5*478*278
Recommended charging current (A)	50	100	157
Recommended discharge current (A)	50	100	157
<b>OPERATING PARAMETERS</b>			
Charging temperature (°C)	0~55		
Discharge temperature (°C)	-10~60		
Storage temperature (°C)	-10~40		
Operating humidity	—	10%~95% [No condensation]	
Storage humidity	—	5%~95% [No condensation]	
Multi-module (connection)	—	2PCS Parallel (Min)/16PCS Parallel (Max)	
<b>SYSTEM PARAMETERS</b>			
Rated energy (kWh)	—	21/168	32.15/257.22
Operating voltage range (V)	44.8~57.6		
Size: Length * Width * Height (mm)	—	675.8*478*556/675.8*1500*1668	850*478*556/850*1500*1668
Weight (kg)	—	191.6/1532.8	251.6/2012.8
Port communication	RS485,RS232,CAN		
IP rating	—	IP20	
Compatible with inverter	Growatt,Solis Goodwe,Sol-Ark,SRNE,DEYE		
Cycle life	>6000(0.5C@ 25°C,90% DOD)		
Design lifespan (years)	15		

### Product Feature



• Safety and Intelligent

Long life LiFePO4 cells, high energy density, build in BMS and passive protection



• Adaptable to Harsh Environment

Adapt to wide range of temperature and humidity



• Easy to Install and Use

Modular design, simple operation



• Support Bluetooth/WIFI function (optional)

Can be controlled remotely to reduce operation and maintenance costs



• Long Life Span

10 years design life, more than 6000cycles



• Multi-scenario application

Household use, small industrial and commercial applications

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# Y Series Wall Mounted



## Wall Mounted

MODEL	SAS51100-WM	SAS51200-WM
Nominal voltage(V)	51.2	
Nominal capacity(AH)	100	200
Energy(KWH)	5.12	10.24
Internal Resistance	≤200mΩ	
Cycle Life	≥6000 ( 25℃ ±2℃ , 0.5C / 0.5C, 90%DOD)	
Months Self Discharge	<3%	
Charge Mode	CC/CV	
Operating Voltage ( V )	43.2~57.6(Max discharge/Max charge)	
Max (Dis)charge Current(A)	100	200
Recommend (Dis)charge Current(A)	50	100
BMS(A)	100	200
Operating Temperature	Charge : 0 ~ 55℃ / Discharge : -20℃ ~ 55℃	
Water Dust Resistance	IP20(IP54 OPTIONAL)	
Cell & Method	3.2V100Ah-16S1P	3.2V100Ah-16S2P
Protocol (optional)	RS232/RS485/CAN/BLUETOOTH/WIFI	
Safety & Certification	CELL:UL1642/UL1973/IEC62619/CE/CB/UN38.3/UL9540/ROHS/REACH	
Compatible Inverters	Deye/GoodWe/Solis/SAJ/Sinexcel/Hoymiles/Growatt/Ecatus/Sermatec/ATESS/Sunways etc.	
Neight Weight (kg)	51	90
Gross Weight (kg)	56	100
Size (mm)	600*440*168(D*W*H)	780*505*168(D*W*H)
Package Size (mm)	680*530*250	900*560*384
Qty of Loading	224pcs 20ft/448pcs 40ft	

## Product Feature



· Safety and Intelligent  
Long life LiFePO4 cells, high energy density, build in BMS and passive protection



· Adaptable to Harsh Environment  
Adapt to wide range of temperature and humidity



· Easy to Install and Use  
Modular design, simple operation



· Support Bluetooth/WIFI function (optional)  
Can be controlled remotely to reduce operation and maintenance costs



· Long Life Span  
10 years design life, more than 6000cycles



· Multi-scenario application  
Household use, small industrial and commercial applications

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Y2 Series

# Wall Mounted/Mobile



## Wall Mounted/Mobile



### Product Feature



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Adapt to wide range of temperature and humidity



· Easy to Install and Use  
Modular design, simple operation



· Support Bluetooth/WIFI function (optional)  
Can be controlled remotely to reduce operation and maintenance costs



· Long Life Span  
10 years design life, more than 6000cycles



· Multi-scenario application  
Household use, small industrial and commercial applications

#### MODEL

SAS51200-WM/M

#### BATTERY PARAMETERS

Rated voltage (V)	51.2
Rated capacity (Ah)	200

#### OPERATING PARAMETERS

Rated energy of battery (kWh)	10.49
Voltage range (V)	44.8~57.6
Recommended charging current (A)	100
Recommended discharge current (A)	100
Charging temperature (°C)	0~55
Discharge temperature (°C)	-10~60
Storage temperature (°C)	-10~40

#### SYSTEM PARAMETER

Size: Length * Width * Height (mm)	453*228*750
Weight (kg)	90.6
Port communication	RS485,RS232,CAN
Display	LED+LCD
Wireless communication	WiFi,Bluetooth
Compatible with inverter	Growatt,Solis Goodwe,Sol-Ark,SRNE,DEYE
Cycle life	>6000(0.5C@25°C,90% DOD)
Design lifespan (years)	15

#### CERTIFICATION

Security and Authentication	CE,EMC
Transportation	UN38.3

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# M Series Mobile Batteries



## Mobile Batteries



### Product Feature



· Safety and Intelligent  
Long life LiFePO4 cells, high energy density, build in BMS and passive protection



· Adaptable to Harsh Environment  
Adapt to wide range of temperature and humidity



· Easy to Install and Use  
Modular design, simple operation



· Support Bluetooth/WIFI function (optional)  
Can be controlled remotely to reduce operation and maintenance costs



· Long Life Span  
10 years design life, more than 6000cycles



· Multi-scenario application  
Household use, small industrial and commercial applications

MODEL	SAS51280-W	SAS51314-W
Nominal voltage(V)	51.2	
Nominal capacity(AH)	280	314
Energy(KWH)	14.336	16.07
Internal Resistance	≤200mΩ	
Cycle Life	≥6000 ( 25℃±2℃, 0.5C / 0.5C, 90%DOD)	
Months Self Discharge	<3%	
Charge Mode	CC/CV	
Operating Voltage ( V )	43.2~57.6(Max discharge/Max charge)	
Max (Dis)charge Current(A)	200	200
Recommend (Dis)charge Current(A)	100(140 optional)	100(157 optional)
BMS(A)	200	200
Operating Temperature	Charge : 0 ~ 55℃ / Discharge : -20℃ ~ 55℃	
Water Dust Resistance	IP20(IP54 OPTIONAL)	
Cell & Method	3.2V280Ah-16S1P	3.2V314Ah-16S1P
Protocol (optional)	RS232/RS485/CAN/BLUETOOTH/WIFI	
Safety & Certification	CELL:UL1642/UL1973/IEC62619/CE/CB/UN38.3/UL9540/ROHS/REACH	
Compatible Inverters	Deye/GoodWe/Solis/SAJ/Sinexcel/Hoymiles/Growatt/Ecatus/Sermatec/ATESS/Sunways etc.	
Neight Weight (kg)	117	
Gross Weight (kg)	130	
Size (mm)	854*500*300(H*W*D)	
Package Size (mm)	945*625*510	
Qty of Loading	84pcs/20ft 168pcs/40ft	

\*Weight and Size of the battery module is based on the actual product, with a tolerance of \* 3% allow

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NEW M Series

# Mobile Batteries



## Mobile Batteries



MODEL	SAS51314
Rated voltage (M):	51.2
Rated capacity (Ah):	314
Rated energy of battery (kWh):	16.08
Voltage range (M):	44.8-57.6
Recommended charging current (A):	157
Recommended discharge current (A):	157
Charging temperature (C):	0~55
Discharge temperature (C):	-20~60
Storage temperature (C):	-10~40
Size(mm):	503*233*880
Weight (kg):	122
Port communication:	RS485、RS233、CAN
Display:	LED strip light+LCD
Wireless communication:	Bluetooth
Cycle life:	>6000(0.5C@25C,90% DOD)
Design lifespan (years):	10
Security and Authentication:	CE,EMC
Transportation:	UN38.3

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## Product Feature



### · Safety and Intelligent

Long life LiFePO4 cells, high energy density, build in BMS and passive protection



### · Adaptable to Harsh Environment

Adapt to wide range of temperature and humidity



### · Easy to Install and Use

Modular design, simple operation



### · Support Bluetooth/WIFI function (optional)

Can be controlled remotely to reduce operation and maintenance costs



### · Long Life Span

10 years design life, more than 6000cycles



### · Multi-scenario application

Household use, small industrial and commercial applications

# NEW M Series Mobile Batteries



## Mobile Batteries



MODEL	SAS51314
Rated voltage (M):	51.2
Rated capacity (Ah):	314
Rated energy of battery (kWh):	16.08
Voltage range (M):	44.8-57.6
Recommended charging current (A):	157
Recommended discharge current (A):	157
Charging temperature (C):	0-55
Discharge temperature (C):	-20-60
Storage temperature (C):	-10-40
Size(mm):	503*233*880
Weight (kg):	122
Port communication:	RS485、RS233、CAN
Display:	LED strip light+LCD
Wireless communication:	Bluetooth
Cycle life:	>6000(0.5C@25C,90% DOD)
Design lifespan (years):	10
Security and Authentication:	CE,EMC
Transportation:	UN38.3

\*File version: 2026V1-EN

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### · Multi-scenario application

Household use, small industrial and commercial applications

S Series

# Stackable Low Voltage Lithium Battery



## Stackable Low Voltage Lithium Battery

### DATASHEET

#### MODEL

Battery Type	LiFePO4
Nominal Battery Energy	5.12kWh/10.24kWh
Nominal Capacity	100Ah/200Ah
Nominal Voltage	51.2V
Net Weight	48KG/80KG
Dimension(W/D/H)	650×410×333mm/530*520*239mm
Communication	RS232/RS485/CAN/BLUETOOTH/WIFI
Cycle Life*	6000 cycles 80% DOD,0.5C
Protection Level	IP20
Expansion	Up to 6 units in parallel
Compatible Inverters	Deye/GoodWe/Solis/SAJ/Sinexcel/Hoymiles/Growatt/Ecatus/Sermatec/ATESS/Sunways etc.
Certification & Safety Standard	UN38.3, MSDS, IEC62619, CE, UL1973, UL2054

Battery Module Quantity	2-6units	2-6units
Nominal Battery Energy	5.12kWh*N(N=2-6)	10.24kWh*N(N=2-6)
Nominal Capacity	100AH*N(N=2-6)	200AH*N(N=2-6)
Nominal Voltage	51.2V	51.2V
Max.Power Output	5.12kW*N(N=2-6)	10.24kW*N(N=2-6)
Discharge Cut-off Voltage	43.2V	43.2V
Charge Cut-off Voltage	57.6V	57.6V
Recommend Charging Current	50A	100A
Recommend Discharging Current	50A	100A
Max Charge/Discharge Working Current (A)	100A	200A
Net Weight	48KG*N(N=2-6)	80KG*N(N=2-6)

\*File version: 2026V1-EN  
 \*Weight and Size of the battery module is based on the actual product, with a tolerance of \* 3% allow  
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### Product Feature



· Safety and Intelligent  
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· Adaptable to Harsh Environment  
 Adapt to wide range of temperature and humidity



· Easy to Install and Use  
 Modular design, simple operation



· Support Bluetooth/WIFI function (optional)  
 Can be controlled remotely to reduce operation and maintenance costs



· Long Life Span  
 10 years design life, more than 6000cycles



· Multi-scenario application  
 Household use, small industrial and commercial applications

AIO Series

# All In One Energy Storage Battery System



## All In One Energy Storage Battery System

MODEL

SAS-AIO-2.56

### INVERTER PARAMETERS

#### Inverter Output

Rated power	2000W
AC rated voltage	230VAC
Rated frequency	50Hz
AC voltage	230VAC±5%
MAX.EFFICIENCY	92%
Switchover time	10ms
Wave	Pure sine wave

#### Inverter Input

Battery overvoltage	31.0V
Battery undervoltage warning	23.8V
Battery undervoltage	22.8V
Constant charge voltage	28.8V
Float charge voltage	28.0V

#### Grid Input

Rated voltage	220V
Voltage range	90~280VAC
Rated frequency	50Hz
Frequency range	40~70Hz
Rated current	10.9A
Max. AC current	17A

#### PV Input

Max. voltage	160V
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#### Inverter Charge

Inverter Max. charge current	100A
Grid Max. battery charge current	80A
PV Max. charge current	60A

### Battery Parameters

Rated capacity	2.56 kWh
Nominal voltage	25.6V
Discharge voltage range	21.6 ~28.8V
Cycle life	25±2°C, 0.5C/0.5C, EOL80% ≥6000
Working temperature range	Charge: 0°C~60°C Discharge: -20°C ~60°C
Packaging size	480×310×630mm
Gross weight	35kg

## Product Feature



· ALL in one system



· Stable performance



· Easy to Install and Use



· Recycling



· Long service life



· With communication protocol

AIO Series

# All In One Energy Storage Battery System



## All In One Energy Storage Battery System

**MODEL** SAS-AIO-5.12

### INVERTER PARAMETERS

Inverter Output	
Rated power	3500W
AC rated voltage	230VAC
Rated frequency	50Hz
AC voltage	230VAC±5%
MAX.EFFICIENCY	92%
Switchover time	10ms
Wave	Pure sine wave

Inverter Input	
Battery overvoltage	31.0V
Battery undervoltage warning	23.8V
Battery undervoltage	22.8V
Constant charge voltage	28.8V
Float charge voltage	28.0V

Grid Input	
Rated voltage	220V
Voltage range	90~280VAC
Rated frequency	50Hz
Frequency range	40~70Hz
Rated current	10.9A
Max. AC current	17A

PV Input	
Max. voltage	160VDC

Inverter Charge	
Inverter Max. charge current	100A
Grid Max. battery charge current	50A
PV Max. charge current	50A

### Battery Parameters

Rated capacity	5.12 kWh
Nominal voltage	25.6V
Discharge voltage range	21.6 ~28.8V
Cycle life	25±2°C , 0.5C/0.5C , EOL80% ≥6000
Working temperature range	Charge: 0°C~60°C Discharge: -20°C ~60°C
Communication interface	RS232
Depth of discharge DOD	0.9

### Product Feature



· ALL in one system



· Stable performance



· Easy to Install and Use



· Recycling



· Long service life



· With communication protocol

AIO Series

# All In One Energy Storage Battery System



## All In One Energy Storage Battery System

MODEL	SAS-AIO-15.36
<b>INVERTER PARAMETERS</b>	
Rated power	10kW
AC rated voltage	230VAC
Selectable voltage range	90-280VAC
Frequency range	50Hz/60Hz
AC voltage	230VAC±5%
Efficiency	93.5%
Transfer time	10ms
Waveform	Sine wave
Rated battery voltage	40-58.4V
Compatible battery type	Lithium
Max.PV array open circuit voltage	500VDC
Max.PV array power	11 kW
MPPT range@ Operating voltage	90-450VDC
Max.charge current	150A
Packaging size	715×470×255mm
Gross weight	26.15kg
<b>Battery parameter</b>	
Rated capacity	15.36 kWh
Nominal voltage	51.2V
Discharge voltage range	43.2-57.6V
Standard charge current	0.5C@25 °C
Max.charging current	200A@25 °C
Max.discharge current	200A@25 °C
Max.power output	15360Wh
IDepth of discharge DOD	1
Cycle life	25±2 °C , 0.5C/0.5C , EOL80% ≥6000
Working temperature range	Charge: 0 °C ~60 °C Discharge: -20 °C ~60 °C
Packaging size	750×310×865mm
Gross weight	132kg

### Product Feature



· ALL in one system



· Stable performance



· Easy to Install and Use



· MPPT solar charging



· Long service life



· With communication protocol

\*File version: 2026V1-EN

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AIO Series

# All In One Energy Storage Battery System



## All In One Energy Storage Battery System

**MODEL** SAS-AIO-10.24 SAS-AIO-15.36/SAS-AIO-16.07

### INVERTER PARAMETERS

Rated power	6200W
AC rated voltage	220VAC/230VAC
Selectable voltage range	170-280VAC
Frequency range	50Hz/60Hz
AC voltage	230VAC±5%
Efficiency	93.5%
Transfer time	10ms
Waveform	Sine wave
Rated battery voltage	51.2v
Battery voltage range	40-58.4V
Compatible battery type	Lithium
Max.PV array open circuit voltage	500VDC
Max.PV array power	6200W
MPPT range@ Operating voltage	60-450VDC
Max.charge current	100A
Net weight	10kg
Dimension	550*200*324mm

### Battery parameter

Rated capacity	10.24 kWh	15.36/16.07 kWh
Nominal voltage	51.2V	
Normal Capacity	200Ah	304/314Ah
Discharge voltage range	43.2-57.6V	
Standard charge current	0.5C@25°C	
Max.charging current	1C@25°C	
Max.discharge current	1C@25°C	
Max.power output	10240Wh	15360/16070 Wh
Depth of discharge DOD	1	
Communication Interface	RS485/RS232/CAN	
Cycle life	25±2°C, 0.5C/0.5C, EOL80% 2 6000	
Working temperature range	Charge: 0°C ~55°C Discharge: -20°C ~55°C	
Net weight	100kg	145/155kg
Cycle life	550*200*1070mm	550*200*1443mm

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## Product Feature



· ALL in one system



· Stable performance



· Easy to Install and Use



· MPPT solar charging



· Long service life



· With communication protocol



## Stackable and Rack High Voltage Lithium Battery

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Z Series

R Series

# Z Series Stackable High Voltage Lithium Battery



## Rechargeable LITHIUM IRON PHOSPHATE (LiFePO4) Battery

### DATASHEET

#### MODEL

Battery Type	LiFePO4
Nominal Battery Energy	5.12kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Net Weight	40.8kg
Dimension(W/D/H)	482*475*133mm
Communication	RS232/RS485/CAN/BLUETOOTH/WIFI
Cycle Life*	6000 cycles 80% DOD,0.5C
Protection Level	IP20
Expansion	Up to 15 units in series
Compatible Inverters	Deye/GoodWe/Solis/SAJ/Sinexcel/Hoymiles/Growatt/Ecatus/Sermatec/ATESS/Sunways etc.
Certification & Safety Standard	UN38.3, MSDS, IEC62619, CE, UL1973, UL2054

#### Stackable Type

SAS-20.48kWh-Z

	4-7units	8-11units	12-15units
Battery Module Quantity	4-7units	8-11units	12-15units
Nominal Battery Energy	5.12kWh*N(N=4-7)	5.12kWh*N(N=8-11)	5.12kWh*N(N=12-15)
Nominal Capacity	100AH	100AH	100AH
Nominal Voltage	5.12V*N(N=4-7)	5.12V*N(N=8-11)	5.12V*N(N=12-15)
Max.Power Output	5.12kW*N(N=4-7)	5.12kW*N(N=8-11)	5.12kW*N(N=12-15)
Discharge Cut-off Voltage	44V*N(N=4-7)	44V*N(N=8-11)	44V*N(N=12-15)
Charge Cut-off Voltage	56.8V*N(N=4-7)	56.8V*N(N=8-11)	56.8V*N(N=12-15)
Recommend Charging Current	50A	50A	50A
Recommend Discharging Current	50A	50A	50A
Max Charge/Discharge Working Current (A)	100A	100A	100A
Net Weight	40.2KG*N(N=4-7)	40.2KG*N(N=8-11)	40.2KG*N(N=12-15)

Working temperature Charge : 0 ~ 55°C / Discharge : -20°C ~ 55°C

Design Life 10 years+

\*File version: 2026V1-EN

\*Weight and Size of the battery module is based on the actual product.

\*Specifications may vary during continuous improvements, pls contact us for latest details.

\*The installation of battery packs is related to product quality assurance, safe and stable operation. Please follow the requirements of the user manual for standardized installation, use, and routine maintenance

\*Each column can hold a maximum of 6 batteries plus one high-voltage box, please confirm the number of batteries per column with the sales team.



### Product Feature



#### • HIGH CYCLE LIFE

Can achieve 6000 cycles at 90%state of charge, effectively reducing total cost of ownership.



#### • FAST CHARGING SPEED

High charge and discharge efficiency, reducing equipment downtime and saving more time.



#### • HIGHLY ADAPTABLE

Strong environmental adaptability can withstand up to 60°C.



#### • SAFER

Real-time monitoring of PDU for better system protection.



#### • EASY TO STORE

Due to its extremely low self-discharge rate (LSD) and no risk of sulfation, it can last up to 6 months.



#### • EASY TO STORE

Lithium batteries provide more watt-hours per kilogram while weighing only one-third of their SLA equivalents.

# Z Series Stackable High Voltage Lithium Battery



## HIGH VOLTAGE LITHIUM BATTERY

### DATASHEET

#### MODEL

Battery Type	LiFePO4
Nominal Battery Energy	10.24kWh
Nominal Capacity	200Ah
Nominal Voltage	51.2V
Net Weight	91.2kg
Dimension(W/D/H)	685*478*278mm
Communication	RS232/RS485/CAN/BLUETOOTH/WIFI
Cycle Life*	6000 cycles 80% DOD,0.5C
Protection Level	IP20
Expansion	Up to 15units in series
Compatible Inverters	Deye/GoodWe/Solis/SAJ/Sinexcel/Hoymiles/Growatt/Ecatus/Sermatec/ATESS/Sunways etc.
Certification & Safety Standard	UN38.3, MSDS, IEC62619, CE, UL1973, UL2054

#### Stackable Type

SAS-20.48kWh-Z

	3-6units	7-10units	11-15units
Battery Module Quantity	3-6units	7-10units	11-15units
Nominal Battery Energy	10.24kWh*N(N=3-6)	10.24kWh*N(N=7-10)	10.24kWh*N(N=11-15)
Nominal Capacity	200AH	200AH	200AH
Nominal Voltage	51.2V*N(N=3-6)	51.2V*N(N=7-10)	51.2V*N(N=11-15)
Max.Power Output	10.24kW*N(N=3-6)	10.24kW*N(N=7-10)	10.24kW*N(N=11-15)
Discharge Cut-off Voltage	44V*N(N=3-6)	44V*N(N=7-10)	44V*N(N=11-15)
Charge Cut-off Voltage	56.8V*N(N=3-6)	56.8V*N(N=7-10)	56.8V*N(N=11-15)
Recommend Charging Current	100A	100A	100A
Recommend Discharging Current	100A	100A	100A
Max Charge/Discharge Working Current (A)	200A	200A	200A
Net Weight	91.2KG*N(N=3-6)	91.2KG*N(N=7-10)	91.2KG*N(N=11-15)
Working temperature	Charge : 0 ~ 55°C / Discharge : -20°C ~ 55°C		
Design Life	10 years+		

\*File version: 2026V1-EN

\*Weight and Size of the battery module is based on the actual product,

\*Specifications may vary during continuous improvements, pls contact us for latest details.

\*The installation of battery packs is related to product quality assurance, safe and stable operation. Please follow the requirements of the user manual for standardized installation, use, and routine maintenance

\*Each column can hold a maximum of 6 batteries plus one high-voltage box, please confirm the number of batteries per column with the sales team.



## Product Feature



### · HIGH CYCLE LIFE

Can achieve 6000 cycles at 90%state of charge, effectively reducing total cost of ownership.



### · FAST CHARGING SPEED

High charge and discharge efficiency, reducing equipment downtime and saving more time.



### · HIGHLY ADAPTABLE

Strong environmental adaptability can withstand up to 60°C.



### · SAFER

Real-time monitoring of PDU for better system protection.



### · EASY TO STORE

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### · EASY TO STORE

Lithium batteries provide more watt-hours per kilogram while weighing only one-third of their SLA equivalents.

# Z Series Stackable High Voltage Lithium Battery



## HIGH VOLTAGE LITHIUM BATTERY

### DATASHEET

#### MODEL

Battery Type	LiFePO4
Nominal Battery Energy	16.07kWh
Nominal Capacity	314Ah
Nominal Voltage	51.2V
Net Weight	119kg
Dimension(W/D/H)	798*478*278mm
Communication	RS232/RS485/CAN/BLUETOOTH/WIFI
Cycle Life*	8000 cycles 80% DOD,0.5C
Protection Level	IP20
Expansion	Up to 15units in series
Compatible Inverters	Deye/GoodWe/Solis/SAJ/Sinexcel/Hoymiles/Growatt/Ecatus/Sermatec/ATESS/Sunways etc.
Certification & Safety Standard	UN38.3, MSDS, IEC62619, CE, UL1973, UL2054

#### Stackable Type

SAS-20.48kWh-Z

	7-9units	10-12units	13-15units
Battery Module Quantity	7-9units	10-12units	13-15units
Nominal Battery Energy	16.07kWh*N(N=7-9)	16.07kWh*N(N=10-12)	16.07kWh*N(N=13-15)
Nominal Capacity	314AH	314AH	314AH
Nominal Voltage	51.2V*N(N=7-9)	51.2V*N(N=10-12)	51.2V*N(N=13-15)
Max.Power Output	16.07kW*N(N=7-9)	16.07kW*N(N=10-12)	16.07kW*N(N=13-15)
Discharge Cut-off Voltage	44V*N(N=7-9)	44V*N(N=10-12)	44V*N(N=13-15)
Charge Cut-off Voltage	56.8V*N(N=7-9)	56.8V*N(N=10-12)	56.8V*N(N=13-15)
Recommend Charging Current	100A	100A	100A
Recommend Discharging Current	100A	100A	100A
Max Charge/Discharge Working Current (A)	200A	200A	200A
Net Weight	119KG*N(N=7-9)	119KG*N(N=10-12)	119KG*N(N=13-15)
Working temperature	Charge : 0 ~ 55 °C / Discharge : -20 °C ~ 55 °C		
Design Life	10 years+		

\*File version: 2026V1-EN

\*Weight and Size of the battery module is based on the actual product,

\*Specifications may vary during continuous improvements, pls contactus for latest details.

\*The installation of battery packs is related to product quality assurance, safe and stable operation. Please follow the requirements of the user manual for standardized installation, use, and routine maintenance

\*Each column can hold a maximum of 6 batteries plus one high-voltage box, please confirm the number of batteries per column with the sales team.

## Product Feature



### · HIGH CYCLE LIFE

Can achieve 6000 cycles at 90%state of charge, effectively reducingtotal cost of ownership.



### · FAST CHARGING SPEED

High charge and discharge efficien-cy, reducing equipment downtimeand saving more time.



### · HIGHLY ADAPTABLE

Strong environmental adaptability can withstand up to 60°C.



### · SAFER

Real-time moni toring of PDU forbetter sys tem protection.



### · EASY TO STORE

Due to its extremely low self-dis-charge rate (LSD) and no risk ofsulphation, it can last up to 6 months.



### · EASY TO STORE

Lithium batteries provide morewatt-hours per kilogram while weighing only one-third of theirSLA equivalents.

R Series

# Rack High Voltage Lithium Battery



## RACK HIGH VOLTAGE LITHIUM BATTERY



### DATASHEET

#### MODEL

Battery Type	LiFePO4
Nominal Battery Energy	10.24kWh
Nominal Capacity	200Ah
Nominal Voltage	51.2V
Net Weight	80kg
Dimension(W/D/H)	442*620*223mm
Communication	RS232/RS485/CAN/BLUETOOTH/WIFI
Cycle Life*	6000 cycles 80% DOD,0.5C
Protection Level	IP20
Expansion	Up to 15 units in series
Compatible Inverters	Deye/GoodWe/Solis/SAJ/Sinexcel/Hoymiles/Growatt/Ecatus/Sermatec/ATESS/Sunways etc.
Certification & Safety Standard	UN38.3, MSDS, IEC62619, CE, UL1973, UL2054

#### Stackable Type

SAS-20.48kWh-Z

	3-6units	7-10units	11-15units
Battery Module Quantity	3-6units	7-10units	11-15units
Nominal Battery Energy	10.24kWh*N(N=3-6)	10.24kWh*N(N=7-10)	10.24kWh*N(N=11-15)
Nominal Capacity	200AH	200AH	200AH
Nominal Voltage	51.2V*N(N=3-6)	51.2V*N(N=7-10)	51.2V*N(N=11-15)
Max.Power Output	10.24kW*N(N=3-6)	10.24kW*N(N=7-10)	10.24kW*N(N=11-15)
Discharge Cut-off Voltage	44V*N(N=3-6)	44V*N(N=7-10)	44V*N(N=11-15)
Charge Cut-off Voltage	56.8V*N(N=3-6)	56.8V*N(N=7-10)	56.8V*N(N=11-15)
Recommend Charging Current	100A	100A	100A
Recommend Discharging Current	100A	100A	100A
Max Charge/Discharge Working Current (A)	200A	200A	200A
Net Weight	98KG*N(N=3-6)	98KG*N(N=7-10)	98KG*N(N=11-15)
Working temperature	Charge : 0 ~ 55 °C / Discharge : -20 °C ~ 55 °C		
Design Life	10 years+		

### Product Feature

- Flexible Expansion
- Long-term Reliability
- Economical
- IP20
- Battery Protection
- Wide Compatibility

\*File version: 2026V1-EN  
 \*Weight and Size of the battery module is based on the actual product,  
 \*Specifications may vary during continuous improvements, pls contactus for latest details.  
 \*The installation of battery packs is related to product quality assurance, safe and stable operation. Please follow the requirements of the user manual for standardized installation, use, and routine maintenance  
 \*Each column can hold a maximum of 6 batteries plus one high-voltage box, please confirm the number of batteries per column with the sales team.

# R Series

## Rack High Voltage Lithium Battery



### RACK HIGH VOLTAGE LITHIUM BATTERY



#### DATASHEET

##### MODEL

Battery Type	LiFePO4
Nominal Battery Energy	16.07kWh
Nominal Capacity	314Ah
Nominal Voltage	51.2V
Net Weight	115kg
Dimension(W/D/H)	801*532*233mm
Communication	RS232/RS485/CAN/BLUETOOTH/WIFI
Cycle Life*	6000 cycles 80% DOD,0.5C
Protection Level	IP20
Expansion	Up to 15 units in series
Compatible Inverters	Deye/GoodWe/Solis/SAJ/Sinexcel/Hoymiles/Growatt/Ecatus/Sermatec/ATESS/Sunways etc.
Certification & Safety Standard	UN38.3, MSDS, IEC62619, CE, UL1973, UL2054

##### Stackable Type

	SAS-20.48kWh-Z	
Battery Module Quantity	7-11units	12-15units
Nominal Battery Energy	16.07kWh*N(N=7-11)	16.07kWh*N(N=12-15)
Nominal Capacity	314AH	314AH
Nominal Voltage	51.2V*N(N=7-11)	51.2V*N(N=12-15)
Max.Power Output	16.07kW*N(N=7-11)	16.07kW*N(N=12-15)
Discharge Cut-off Voltage	44V*N(N=7-11)	44V*N(N=12-15)
Charge Cut-off Voltage	56.8V*N(N=7-11)	56.8V*N(N=12-15)
Recommend Charging Current	100A	100A
Recommend Discharging Current	100A	100A
Max Charge/Discharge Working Current (A)	200A	200A
Net Weight	130KG*N(N=7-11)	130KG*N(N=12-15)
Working temperature	Charge : 0 ~ 55°C / Discharge : -20°C ~ 55°C	
Design Life	10 years+	

#### Product Feature



Flexible Expansion



Long-term Reliability



Economical



IP20



Battery Protection



Wide Compatibility

\*File version: 2026V1-EN

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