



SineSunEnergy

SineSunEnergy

Dedicated To Energy Storage System Integration

New Energy Powers The World



Residential Energy Storage System



Industrial&Commercial Energy Storage System



Telecom Base Station Energy Storage System



Traction Battery



Portable Power Supply



Cell Solutions

Shanghai SineSunEnergy Co.,Ltd.

www.sinesunenergy.com



About SineSunEnergy

Founded in 2009, SineSunEnergy has been focusing on lithium battery energy storage product development and application, providing leading lithium battery energy storage system integrated solutions. The company vertically integrates energy storage lithium battery R&D and production, BMS R&D and system integration, and provides high performance energy storage products and advanced BMS technology.

SineSunEnergy always pursues better quality and higher technology products, we can provide a full range of voltage levels from 5V to 1500V full-scenario energy storage systems and customized solutions, covering energy storage applications in various scenarios such as new energy power generation, grid auxiliary services, microgrids, industrial and commercial parks, charging piles, data centers, and communication base stations. Insisting on innovation, committed to promoting the development of the energy storage industry, would like to make a better world with green energy.

High Voltage Power Bank ESS(100Ah Cell)



High Voltage Power Bank ESS(50Ah Cell)



Low Voltage ESS

Horizontal Mounted ESS



Power Wall ESS



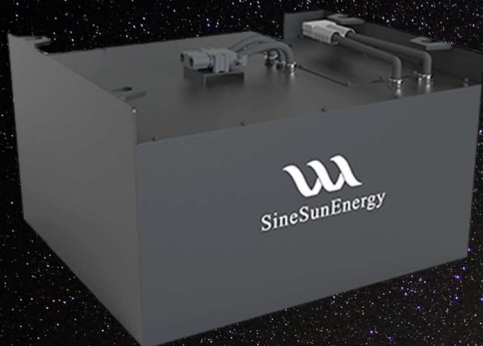
Power Rack ESS



Cabinet BESS



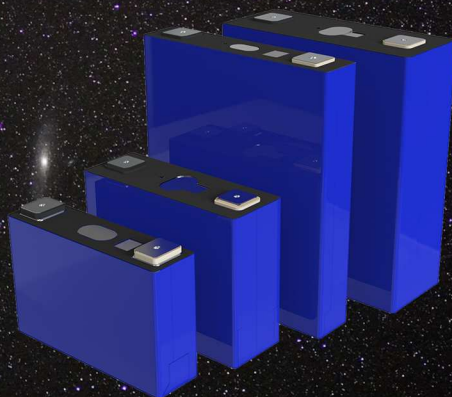
Traction Battery



Portable Power Supply



Cell Solutions





SineSunEnergy

SineSunEnergy High Voltage Power Bank ESS(100Ah cell)

Brief introduction

SineSunEnergy High Voltage Power Bank ESS is made for larger residential. Modular design with advanced LiFePO4 technologies, Up to 40.96 kWh for your choice with parallel support available, high waterproof level and good heat sink, which offers you various capacities to meet more of your requirement.



Features&advantages



Safety



Long Cycle Life



Compatibility



Elegant design



Compact size&Easy Installation



Remote upgrades service



Fast&Reliable After-sales Service Team

Applications



Residential ESS



Telecom base station



Emergency power supply



On/Off Grid power application



PV power system



Micro-grid ESS



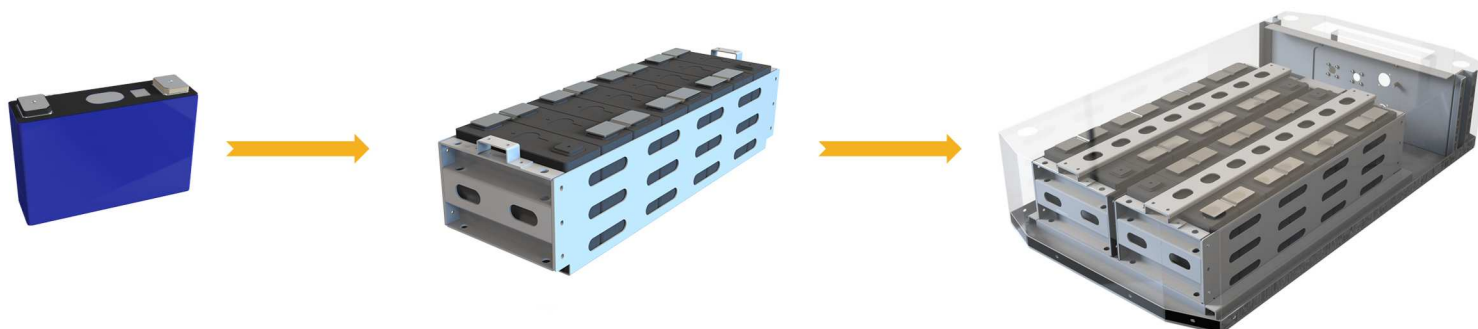
Industrial power supply



Commercial power supply

SineSunEnergy High Voltage Power Bank ESS

SSE-HV 5.12



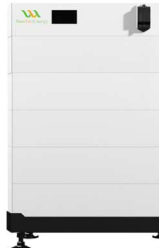





Cell parameter	
Nominal voltage	3.2v
Nominal capacity	100Ah
Charge/Discharge rate	0.5C
Cycle Life(25C0.5C/0.5C@80%DOD)	6000
Dimensions(T*W*H)	52.3*148.2*119

Battery module parameter	
Configuration	1P8S
Nominal voltage	25.6V
Operating voltage	21.6V-28.8V
Nominal capacity	100Ah
Nominal energy	2.56KWh
Max continuous current	100A
Operating temperature	-20°C~55°C
Dimensions(L*W*H)	465.5*153*125.5

Battery pack parameter	
Configuration	1P16S
Nominal voltage	51.2V
Operating voltage	43.2V-57.6V
Nominal capacity	100Ah
Nominal energy	5.12KWh
Max continuous current	104A
Operating temperature	-20°C~55°C
Dimensions(L*W*H)	704*404*150

Specifications

Model	SSE-HV15.4	SSE-HV20.5	SSE-HV25.6	SSE-HV30.7	SSE-HV35.8	SSE-HV41.0
Reference						
Number of Modules	3	4	5	6	7	8
Nominal energy	15.36Kwh	20.48Kwh	25.6Kwh	30.72Kwh	35.84Kwh	40.96Kwh
Nominal voltage	153.6V	204.8V	256V	307.2V	358.4V	409.6V
Operation Voltage Range	129.6-172.8V	172.8-230.4V	216-288V	259.2-345.6V	302.4-403.2V	345.6-460.8V
Dimension mm(H/W/D)	710*704*404	860*704*404	1010*704*404	1160*704*404	1310*704*404	1460*704*404
Weight						
IP Protection	IP55					
Installation	Floor installation					



SineSunEnergy

SineSunEnergy High Voltage Power Bank ESS(50Ah Cell)

Brief introduction

SineSunEnergy High Voltage Power Bank ESS is made for larger residential. Modular design with advanced LiFePO4 technologies, Energy up to 25.6kWh for your choice with parallel support available, high water proof level and good heat sink which can offer you various capacities to meet more of your requirement.



Features&advantages



Safety



Long Cycle Life



Compatibility



Elegant design



Compact size&Easy Installation



Remote upgrades service



Fast&Reliable After-sales Service Team

Applications



Residential ESS



Telecom base station



Emergency power supply



On/Off Grid power application



PV power system



Micro-grid ESS



Industrial power supply



Commercial power supply

Certification: CE, IEC62619(Cell&Pack),MSDS,ROHS,UN38.3



SineSunEnergy

SineSunEnergy SSE512V104.9Kwh Power Rack BESS

Brief introduction

SineSunEnergy SSE512V104.9Kwh Power Rack BESS is mainly applied to smart cities, smart villages, industrial parks, hospitals, stations, scenic spots and other large industrial, commercial and service enterprises with high power consumption, as well as areas with power shortage and poor power quality, to play the role of peak shaving and valley filling, reduce peak load pressure, and realize intelligent energy management on the user side.



Features&advantages



Safety



Long Cycle Life



Compatibility



Elegant design



Compact size&Easy Installation



Remote upgrades service



Fast&Reliable After-sales Service Team

Applications



Residential ESS



Telecom base station



Emergency power supply



On/Off Grid power application



PV power system



Micro-grid ESS



Industrial power supply



Commercial power supply

SineSunEnergy SSE512V104.9Kwh Power Rack BESS

The product is used for electric energy storage of electric energy storage system. The battery route is aluminum shell of lithium iron phosphate battery; The modular design of battery pack is convenient for handling, installation and maintenance.

The lithium iron phosphate battery plug box (PACK) is composed of 16 205Ah single cells, the specification is 1P16S, the power is 10.49kWh, and the nominal voltage is 51.2V. The plug-in box is equipped with the BMS acquisition module BMU, which is used to collect the voltage, temperature and other parameters of the module, and has the functions of equalization and fan control.

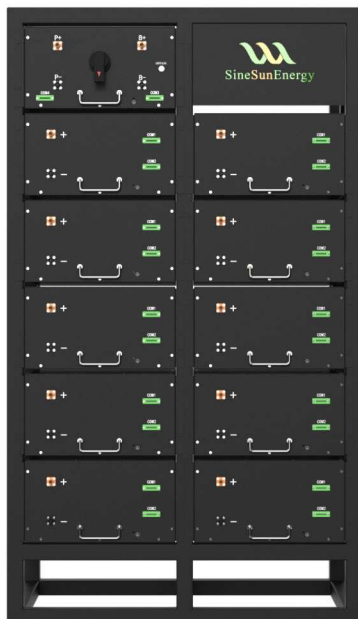
Module Specifications



Nominal capacity	205Ah
Series-parallel mode	1P16S
Nominal voltage	51.2VDC
Voltage range	43.2-58.4VDC
Working temperature	Charge 0°C-60°C Discharge -30°C-60°C
Energy	10.49kwh
Weight	≈80kg
Cooling mode	Air cooling

A single battery cluster is integrated with 10 lithium iron phosphate battery boxes and a converter. The specification is 1P160S, the power is 104.9kWh, and the nominal voltage is 512V. The high-voltage box is carefully designed for the number of battery packs, equipped with control devices, fuses and power-off devices, and has the functions of fault alarm, fault protection, safety protection, etc. The battery module is in series. The BMU collects the voltage and temperature of the single battery and uploads them to the BCU of the high voltage box. The BCU reports the data to the EMS through data collection and analysis, and receives the control command from the EMS.

BESS Specifications



Nominal voltage	512VDC
Clustering mode	160S
Rated energy	104.9kWh(@25°C,0.5°C)
Voltage range	432~584V
working temperature	Charge 0°C-60°C Discharge -30°C-60°C
Shipping capacity	30%SOC
Communication mode	CAN/RS485








SineSunEnergy Horizontal Mounted ESS

Brief introduction

SineSunEnergy Horizontal Mounted ESS is suitable for home energy storage system,PV energy storage system, back-up energy system,UPS,On/off grid energy storage system etc.



Features&advantages

-  Safety
-  Long Cycle Life
-  Compatibility
-  Elegant design
-  Compact size&Easy Installation
-  Remote upgrades service
-  Fast&Reliable After-sales Service Team

Applications

-  Residential ESS
-  Telecom base station
-  Emergency power supply
-  On/Off Grid power application
-  PV power system
-  Wind power system
-  Industrial power supply
-  Commercial power supply

Main Specification

Item	SSE48100	SSE4850
Nominal Voltage (Vdc)	51.2V	51.2V
Nominal capacity	100Ah	50Ah
Nominal Energy(Kwh)	5.12Kwh	2.56Kwh
Max.Continuous Charge Current(A)	50A	25A
Max.Continuous Discharge Current(A)	100A	50A
Communication Port	RS485,CAN	
Working Temperature/°C Charge	0-55°C	
Working Temperature/°C Discharge	-20-60°C	
Storage Temperature/°C	-20-60°C	
IP Grade	IP54	
Cooling type	Natural cooling	
Humidity	4-90%	
Altitude(m)	≤2,000m	
Cycle Life	>6,000 @ 25°C	
Compatibility	SMA, Victron, SOFAR, Deye, Sunsynk, Growatt, Goodwe, etc.	
Max paralleled connection no.	15 UNITS	



SineSunEnergy

SineSunEnergy Power Wall ESS

Brief introduction

SineSunEnergy Power Wall ESS is made for larger residential. Modular design with advanced LiFePO4 technologies, Nine energy specifications up to 14.3kWh for your choice with parallel support available, high waterproof level and good heat sink, which offers you various capacities to meet more of your requirement.



Features&advantages



Safety



Long Cycle Life



Compatibility



Elegant design



Compact size&Easy Installation



Remote upgrades service



Fast&Reliable After-sales Service Team

Applications



Residential ESS



Telecom base station



Emergency power supply



On/Off Grid power application



PV power system



Wind power system



Industrial power supply



Commercial power supply

Main Specification

Item	SSE5.1K	SSE10.2K	SSE14.3K
Nominal Voltage (Vdc)	51.2V		
Capacity(Ah)	100Ah	200Ah	280Ah
Nominal Energy(Kwh)	5.1Kwh	10.2Kwh	14.3Kwh
Max.Continuous Charge Current(A)	50A	100A	140A
Max.Continuous Discharge Current(A)	100A	200A	280A
Communication Port	RS485,CAN		
Working Temperature/°C Charge	0-55°C		
Working Temperature/°C Discharge	-20-60°C		
Storage Temperature/°C	-20-60°C		
IP Grade	IP54		
Cooling type	Natural cooling		
Humidity	4-90%		
Altitude(m)	≤2,000m		
Cycle Life	>6,000 @ 25°C		
Compatibility	SMA, Victron, SOFAR, Deye, Sunsynk, Growatt, Goodwe, etc.		
Max paralleled connection no.	15 sets		

SineSunEnergy Power Rack ESS

Brief introduction

SineSunEnergy Power Rack ESS is suitable for home energy storage system,PV energy storage system, back-up energy system,UPS,On/off grid energy storage system etc.



Features&advantages

-  Safety
-  Long Cycle Life
-  Compatibility
-  Elegant design
-  Compact size&Easy Installation
-  Remote upgrades service
-  Fast&Reliable After-sales Service Team

Applications

-  Residential ESS
-  Telecom base station
-  Emergency power supply
-  On/Off Grid power application
-  PV power system
-  Micro-grid ESS
-  Industrial power supply
-  Commercial power supply

Main Specification

Item	SSE48400 Power Rack	SSE48600 Power Rack
Nominal Voltage (Vdc)	51.2V	
Nominal capacity	400Ah	600Ah
Nominal Energy(Wh)	20.48Kwh	30.72Kwh
Max.Continuous Charge Current(A)	100A	
Max.Continuous Discharge Current(A)	100A	
Communication Port	RS485,CAN	
Working Temperature/°C Charge	0-55°C	
Working Temperature/°C Discharge	-20-60°C	
Storage Temperature/°C	-20-60°C	
IP Grade	IP54	
Cooling type	Natural cooling	
Humidity	4-90%	
Altitude(m)	≤2,000m	
Cycle Life	>6,000 @ 25°C	
Compatibility	SMA, Victron, SOFAR, Deye, Sunsynk, Growatt, Goodwe, etc	



SineSunEnergy

SineSunEnergy Cabinet BESS

Brief introduction

SineSunEnergy SSE768V215Kwh Cabinet BESS is mainly applied to smart cities, smart villages, industrial parks, hospitals, stations, scenic spots and other large industrial, commercial and service enterprises with high power consumption, as well as areas with power shortage and poor power quality, to play the role of peak shaving and valley filling, reduce peak load pressure, and realize intelligent energy management on the user side.



Features&advantages



Safety



Long Cycle Life



Compatibility



Elegant design



Compact size&Easy Installation



Remote upgrades service



Fast&Reliable After-sales Service Team

Applications



Small City



Smal Village



Power Station



On/Off Grid power application



Hospital



Wind power system



Industrial power supply



Commercial power supply

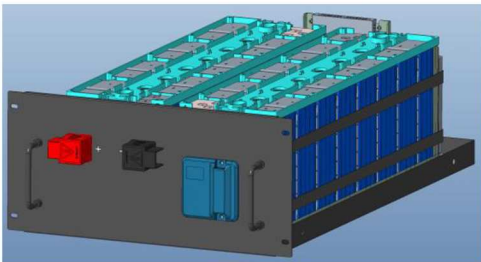
SineSunEnergy Cabinet BESS

PCS Specifications



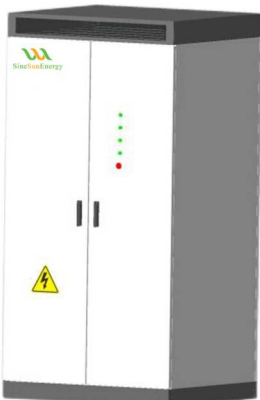
Rated power	100kW	Rated output current	140A
DC voltage range	DC6 00 V- 90 0 V	AC rated voltage	400V
Grid frequency range	45Hz--55Hz	Maximum conversion efficiency	≥98%
Allowable ambient temperature	- 20°C~60°C	Protection grade	IP20
Noise	≤65dB	Allowable relative humidity	≤95%
Weight	40KG	Cooling mode	Intelligent air cooling

Module Specifications



Nominal capacity	280Ah
Series-parallel mode	1P16S
Nominal voltage	51.2VDC
Voltage range	44.8-58.4VDC
Working temperature	Charge 0°C-60°C Discharge -30°C-60°C
Energy	14.336kwh
Size (W*D*H)	450mm*780mm*240mm
Weight	≈127.994kg
Cooling mode	Air cooling

Cabinet BESS Specifications



Nominal voltage	768VDC
Clustering mode	240S
Rated energy	215.04kWh(@25°C,0.5°C)
Voltage range	672~876V
working temperature	Charge 0°C-60°C Discharge -30°C-60°C
Shipping capacity	30%SOC
Communication mode	CAN/RS485
Size (W*D*H)	1215mm*1080mm*2425mm
Weight	2200KG
Protection grade	IP55

SineSunEnergy Traction Battery

Brief introduction

SineSunEnergy SSE4840 Energy Storage System is suitable for Forklift, Gulf Cart, AGV etc.



Features&advantages

-  Safety
-  Long Lasting Strong Power
-  Long Cycle Life
-  Remote Control Service
-  Customization
-  Professional solutions for communication
-  Smart BMS
-  Fast&Reliable After-sales Service Team

Applications

-  Golf cart
-  Forklift
-  E-Bike
-  AGV, RGV
-  Ship/Boat
-  Electric vehicle
-  Industrial power supply
-  Back-up power supply

Main Specification

Cell type	LFP
Nominal Voltage(Vdc)	51.2V
Working Voltage(Vdc)	45-58V
Nominal Capacity(Ah)	40Ah
Charging Cut-off Voltage	58V
Discharging Cut-off Voltage	45V
Standard Charging Current	20A
Standard Discharging Current	40A
Discharging Working Temperature	-20°C-60°C
Charging Working Temperature	-0°C-55°C
Storage Ambient Temperature	-20°C-40°C
Storage Ambient Humidity(RH)	5%-95%
Working Ambient Humidity(RH)	≤85%
Cycle Life	4000 times at 25°C, 0.5C Charge/Discharge speed, ≥70% SOH
Self-discharge Rate	3%/Month
Communication Port	CAN
Control system	BMS
Dimension(mm)	Customized
Weight(kg)	Customized
More customized models available	

SineSunEnergy Traction Battery

Brief introduction









SineSunEnergy SSE48400F Energy Storage System is suitable for Forklift, Gulf Cart, AGV etc.



Features&advantages

-  Safety
-  Long Cycle Life
-  Compatibility
-  Elegant design
-  Compact size&Easy Installation
-  Remote upgrades service
-  Fast&Reliable After-sales Service Team

Applications

-  Golf cart
-  Forklift
-  E-Bike
-  AGV, RGV
-  Ship/Boat
-  Electric vehicle
-  Industrial power supply
-  Back-up power supply

Main Specification

Cell type	LFP
Nominal Voltage(Vdc)	51.2V
Working Voltage(Vdc)	45-58V
Nominal Capacity(Ah)	400Ah
Charging Cut-off Voltage	58V
Discharging Cut-off Voltage	45V
Standard Charging Current	100A
Standard Discharging Current	200A
Peak Discharge Current(5s)	400A
Discharging Working Temperature	-20°C-60°C
Charging Working Temperature	-0°C-55°C
Storage Ambient Temperature	-20°C-40°C
Storage Ambient Humidity(RH)	5%-95%
Working Ambient Humidity(RH)	≤85%
Cycle Life	4000 times at 25°C, 0.5C Charge/Discharge speed, ≥70% SOH
Self-discharge Rate	3%/Month
Communication Port	CAN
Control system	BMS
Dimension(mm)	Customized
Weight(kg)	Customized

More customized models available



SineSunEnergy

SineSunEnergy Portable Power Supply

Brief introduction

SineSunEnergy Portable Power Supply is Mainly applicable to outdoor camping, medical rescue, RV tourism, outdoor exploration, photography interviews, outdoor construction, etc.



Features&advantages



Safety



Large capacity



Long Cycle Life



Inverter drive



Intelligent protection system



Fast&Reliable After-sales Service Team

Applications



Camp



Mobile devices



Emergency use



Fishing



Outdoor operation



Outdoor photography

Specifications

Item		SSE1500PB	SSE1000PB	SSE600PB
Inverter power		1500W	1000W	600W
Capacity		1408Wh	1208Wh	640Wh
Input		DC 12-30V (MAX 200W)	DC 12-30V (MAX 200W)	DC 12-30V (65W)
Output	USB1	5V/2.4A*3	5V/2.4A*3	5V/2.4A*2
	USB2 fast charging	18W	18W	18W
	USB-C	PD60W	PD60W	PD100W
	DC	Car charging plug+DC interface (x2)		
		10V-14.4V/10A	12V/10A	12V/10A
	12V Car	✓	✓	✓
Start-up current		500A	500A	500A
Peak current		1000A	1000A	1000A



SineSunEnergy

SineSunEnergy Cell Solutions

Brief introduction

SineSunEnergy lithium iron phosphate battery cell is a lithium ion battery cell that uses lithium iron phosphate (LiFePO₄) as the positive electrode material and carbon as the negative electrode material. The monomer rated voltage is 3.2V, and the charging cutoff voltage is 3.6V-3.65V.



Features&advantages



Safety



Inverter drive



Intelligent protection system



Long Cycle Life



Fast&Reliable After-sales Service Team

Applications



New Energy Passenger Car



New Energy Bus



New Energy Professional Car



New Energy Construction



New Energy Ship



Telecom ESS



Grid ESS



Commercial power supply

Specifications

No.	Item	SSE50Ah-LFP	SSE104Ah-LFP	SSE150Ah-LFP	SSE280Ah-LFP
1	Nominal Capacity	50Ah	104Ah (1C)	150Ah	280Ah
2	Typical Voltage	3.2V	3.2V	3.2V	3.2V
3	Operating Voltage	2.5 - 3.65 V 2.0-3.65V	2.5 - 3.65 V 2.0-3.65V	2.5 - 3.65 V 2.0-3.65V	2.5 - 3.65 V 2.0-3.65V
4	Standard Discharging Current	50A	100A	75A	140A
5	Maximum Continuous Discharging Current	100A	208A	150A	280A
6	Maximum Discharging Current	150A	300A	450A	560A
7	Standard Charging Current	25A	100A	75A	140A
8	Maximum Continuous Charging Current	50A	200A	150A	280A
9	Maximum Charging Current	200A	400A	300A	560A
10	Working Temperature	Charge : 0°C~55°C Discharge : -30°C~55°C	Charge : 0°C~55°C Discharge : -30°C~55°C	Charge : 0°C~55°C Discharge : -30°C~55°C	Charge : 0°C~55°C Discharge : -30°C~55°C
11	Storage Temperature	-20°C~55°C	-20°C~55°C	-20°C~55°C	-20°C~55°C
12	Dimensions	Thickness: 39.72±0.3 mm Width: 149.1±0.5 mm Shoulder Height : 95.64±0.50mm Total Height : 101.31±0.5 mm	Thickness : 52.32±0.5mm Width : 148.40±0.6mm Height: 119.00±0.6mm	Thickness: 36.32±0.50mm Width: 174.26±0.50mm Shoulder Height : 204.37±0.60mm Total Height : 207.01±0.60mm	Thickness: 71.7±0.50mm Width: 174.00±0.50mm Shoulder Height : 204.40±0.60mm Total Height : 206.80±0.60mm
13	Cathode Material	Lithium-iron-phosphate	Lithium-iron-phosphate	Lithium-iron-phosphate	Lithium-iron-phosphate
14	Cell Weight	1.18 ± 0.05 kg	1.94±0.1kg	2.80±0.08kg	5.40±0.15kg
15	Energy Density	140Wh/kg	176Wh/kg	172Wh/kg	166Wh/kg
16	IMP (1KHz)	≤0.5mΩ	≤0.5mΩ	≤0.5mΩ	≤0.3mΩ

CONTACT US



 Email: sales@sinesunenergy.com

 Phone: +86-13801466262

 Shanghai SineSunEnergy Co.,Ltd.

 www.sinesunenergy.com

 Add: BUILDING 1, NO.1 HAIKUN ROAD,
FENGXIAN DISTRICT, SHANGHAI, CHINA 201418