

**To create an efficient,
reliable and clean energy future**



Sunwoda Energy Technology Co., Ltd.

Address: No.18,Tangjia South Road,FengHuang Street, Guangming New District, Guangdong, China
E-mail: info@sunwoda.com Tel: +86 755 2267 0380



Information may be modified without notice.



CONTENTS

02 - Company Profile

06 - Residential ESS

20 - Hybrid Inverter

22 - Optimized C&I Solution

40 - System

IN THE PAST 29 YEARS

we have been everywhere in your daily life

Energy storage system and solution

In 2016, the subsidiary Sunwoda Energy was founded, spanning residential, commercial, industrial, utility, network, and smart energy storage.

Electric vehicle battery

Since 2012, Sunwoda Group has focused on EV batteries.

Consumer battery

Since then, it has dominated the consumer battery market with one third of the market share.

Cellphone battery

Late 1990s, Sunwoda Group manufactured its first cellphone battery.

COMPANY PROFILE

Sunwoda Energy

As one subsidiary of Sunwoda Group (SZ300207), Sunwoda Energy Technology Co., Ltd. is a globally leading high-tech enterprise focusing on Residential, Commercial&Industrial, Utility Energy Storage Solutions, Network Energy, and Smart Energy.

With over 29 years of experience in the sustainable energy industry, we have the expertise to provide comprehensive energy solutions, including Lithium Battery Cells, Energy Storage Products, and customized Energy Investment&Operational Services.

Sunwoda Inside, Empower Our Future!



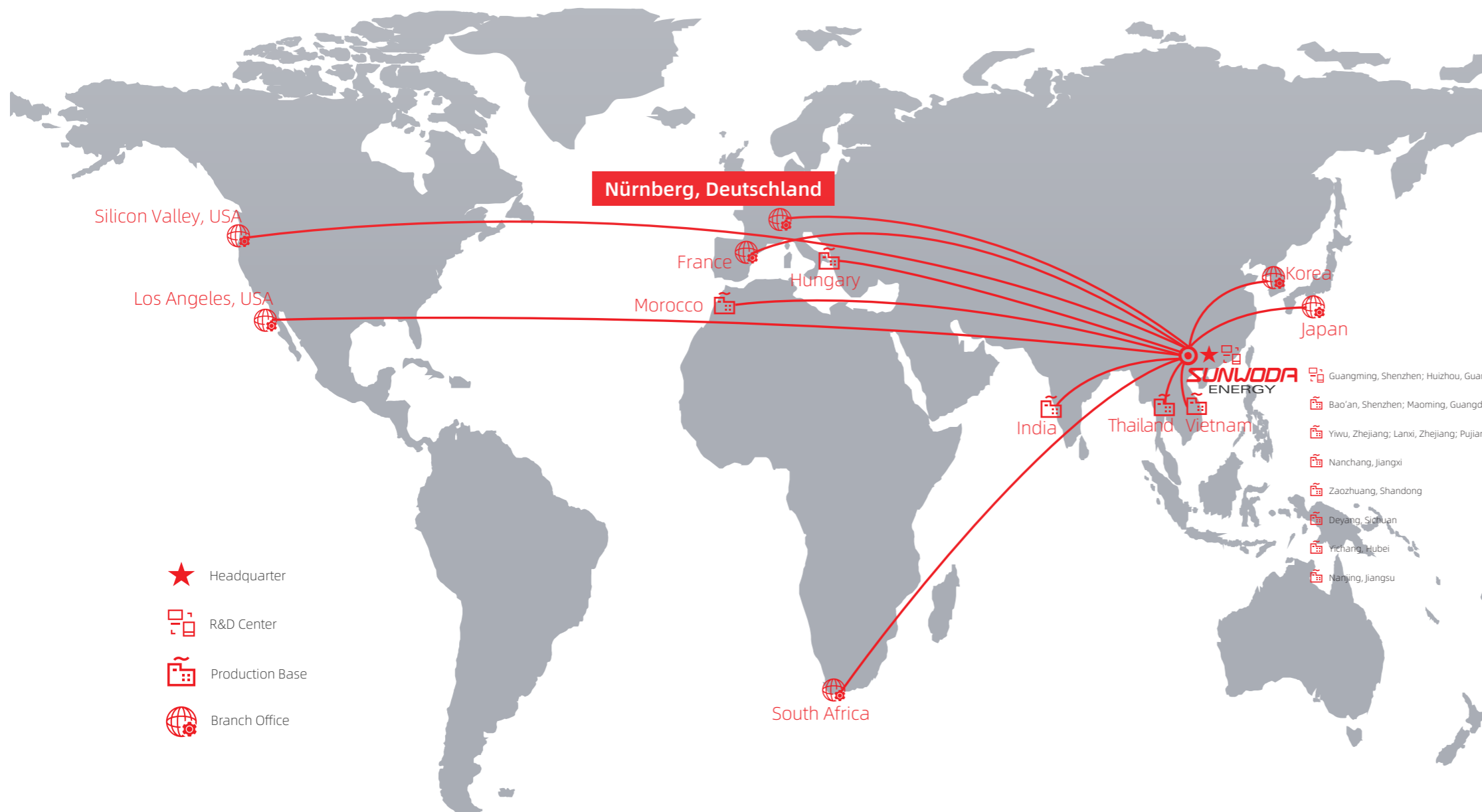
TOP 10
Top 10 global battery companies



29 years
Focus on new energy industry for 29 years



70000+
70000+ staff worldwide



Globalization

A global presence with production plants, R&D centers, and sales divisions located across the world .

- ★ Headquarter
- 🏢 R&D Center
- 🏭 Production Base
- 🌐 Branch Office

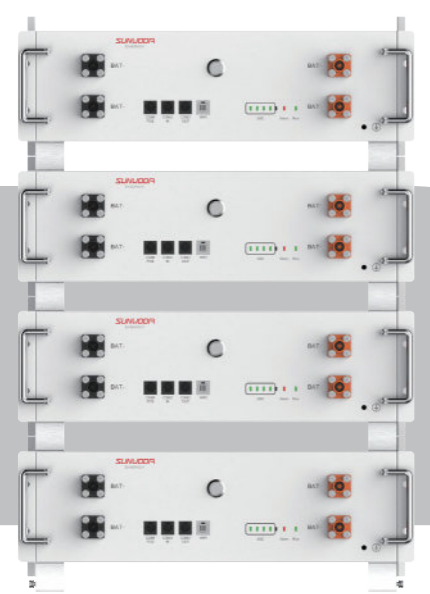
Atrix SE

Sunwoda Atrix SE series adopts a flexible modular design, which can be expanded from 5 kWh of a single module to 1.8MWh of 360 battery modules.



Atrix SE

Model	Atrix-SE5	Atrix-SE10	Atrix-SE15	Atrix-SE20
Nominal energy	5kWh	10kWh	15kWh	20kWh
Usable energy (100% DOD) ¹	5kWh	10kWh	15kWh	20kWh
Rated voltage	51.2V	51.2V	51.2V	51.2V
Charge/discharge cut off voltage	44.8V~55.2V	44.8V~55.2V	44.8V~55.2V	44.8V~55.2V
Rated charge/discharge current ²	50A/80A	100A/160A	150A/240A	200A/320A
Max. charge/discharge current ²	100A/100A	180A/180A	240A/240A	320A/320A
Peak Discharge Current ²	200A @ 15s	360A @ 15s	540A @ 15s	720A @ 15s
Communication interface	CAN 2.0/RS485			
Scalability	Max.360 in parallel (Optional Data Box)			



Flexible application

- Optimized for rack and build-in cabinet installation



Easy to install

- Plug and play
- Compact and Light
- 2 persons installation



Excellent performance

- 100% DOD
- Wider Temperature Range -20°C~50°C, Defies the Harsh Cold



Battery APP (Optional)

- Real time monitoring
- Remote maintenance and upgrades (Optional)

Operating conditions

Installation location	Indoor
Ambient Temperature	-20°C to 50°C
Humidity	10% to 95% (no condensation)
Dimensions (W*H*D, mm)	440*135*410/PACK
Weight	45kg/90kg/135kg/180kg
Enclosure protection rating	IP20
Altitude	<4000m
Cooling	Natural convection
Warranty	10 years ³
Certificates	IEC62619/CE/UN38.3

1. Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.
 2. The current is affected by temperature and SOC.
 3. For warranty instructions, please refer to the warranty terms.



Atrix Basic SE

Sunwoda Atrix Basic SE adopts a flexible modular design, which can be expanded from 5 kWh of a single module to 1.8MWh of 360 battery modules.



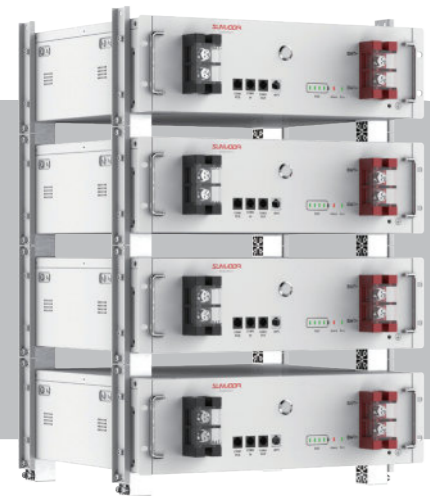
*Restricted Sales Region

Atrix Basic SE

Model	Atrix Basic-SE5	Atrix Basic-SE10	Atrix Basic-SE15	Atrix Basic-SE20
Nominal energy	5kWh	10kWh	15kWh	20kWh
Usable energy (100% DOD) ¹	5kWh	10kWh	15kWh	20kWh
Rated voltage	51.2V	51.2V	51.2V	51.2V
Charge/discharge cut off voltage	44.8V~55.2V	44.8V~55.2V	44.8V~55.2V	44.8V~55.2V
Rated charge/discharge current ²	50A/80A	100A/160A	150A/240A	200A/320A
Max. charge/discharge current ²	100A/100A	180A/180A	240A/240A	320A/320A
Peak Discharge Current ²	200A @ 15s	360A @ 15s	540A @ 15s	720A @ 15s
Communication interface	CAN 2.0/RS485			
Scalability	Max.360 in parallel (Optional Data Box)			

Operating conditions	
Installation location	Indoor
Ambient Temperature	Discharging: -20°C to 50°C, Charging: 0°C to 50°C
Humidity	5% to 95% (no condensation)
Dimensions (W*H*D, mm)	440*135*410/PACK
Weight	45kg/90kg/135kg/180kg
Enclosure protection rating	IP20
Altitude	<4000m
Cooling	Natural convection
Warranty	10 years ³
Certifications	IEC62619/CE/UN38.3

1. Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.
 2. The current is affected by temperature and SOC.
 3. For warranty instructions, please refer to the warranty terms.



Flexible application

- Optimized for rack and build-in cabinet installation



Easy to install

- Lug connection
- Compact and light, 2 persons installation



Battery APP (Optional)

- Real time monitoring
- Remote maintenance and upgrades (optional)



Atrix Smart



*Restricted Sales Region



Flexible application

- Modular design, easily extend capacity



Flexible installation

- Compact and light, 2 persons installation
- Wall mounted/floor installation (Optional)



Excellent performance

- 100% DOD
- Wider Temperature Range -20°C~50°C, Defies the Harsh Cold



Remote data access & control (optional)

- Real-time monitoring
- Remote operation and upgrades

Atrix Smart

Model	Atrix Smart 5	Atrix Smart 10	Atrix Smart 15	Atrix Smart 20
Nominal energy	5kWh	10kWh	15kWh	20kWh
Usable energy (100% DOD) ¹	5kWh	10kWh	15kWh	20kWh
Rated voltage	51.2V	51.2V	51.2V	51.2V
Charge/discharge cut off voltage	44.8V~55.2V	44.8V~55.2V	44.8V~55.2V	44.8V~55.2V
Rated charge/discharge current ²	50A/80A	100A/160A	150A/240A	200A/320A
Max. charge/discharge current ²	100A/100A	180A/180A	240A/240A	320A/320A
Peak Discharge Current ²	200A @ 15s	360A @ 15s	540A @ 15s	720A @ 15s
Communication interface	CAN 2.0/RS485			
Scalability	Max. 16 in parallel, Max. 80 kWh			

Operating conditions	
Installation location	Indoor
Ambient Temperature	-20°C to 50°C
Humidity	5% to 95% (no condensation)
Dimensions (W*H*D, mm)	501*142*452/PACK
Weight	45kg/90kg/135kg/180kg
Enclosure protection rating	IP20
Altitude	<4000m
Cooling	Natural convection
Warranty	10 years ³
Certifications	IEC62619/CE/UN38.3

1. Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.
 2. The current is affected by temperature and SOC.
 3. For warranty instructions, please refer to the warranty terms.



Atrix Max+

Energy storage battery—16kWh



Excellent performance

- Safe LFP cell with 10000 cycles
- DC switch ensures safer installation and operation



Flexible application

- 16 kWh per battery , scalable to 512kWh with up to 32 batteries in parallel
- IP65 rated with strong environmental adaptability



Minimalist structure

- Casters for easy mobility
- Compact size and high energy density



Intelligent Management

- Real time monitoring
- Remote maintenance and upgrades

Atrix Max+

Model	Atrix Max-16L-P	
Nominal energy	16kWh	
Usable energy (100% DOD) ¹	16kWh	
Rated voltage	51.2V	
Charge/discharge cut off voltage	44.8V~57.6V	
Rated charge/discharge current ²	157A/157A	
Max. charge/discharge current ²	220A/220A	
Peak output current ²	300A@5min	
Communication interface	CAN 2.0/RS485	
Scalability	Max. 32 in parallel, Max. 512 kWh	
Casters	Integrated	
WiFi module	Integrated	
Aerosol fire extinguisher*	Unintegrated	Integrated*
Installation location	Outdoor or indoor	
Installation	Floor-Mounted, Wall-Mounted (Optional)	
Ambient Temperature*	Discharging: -20°C to 55°C Charging: 0°C to 55°C	Discharging: -20°C to 55°C Charging: -20°C to 55°C*
Humidity	5% to 95% (no condensation)	
Dimensions	500*970*265mm (W*H*D)	
Weight	130kg	
Enclosure protection rating	IP65	
Altitude	< 4000m	
Cooling	Natural convection	
Warranty	10 years ³	
Certifications	IEC62619/CE/UN38.3	

1. Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.
 2. The current is affected by temperature and SOC.
 3. For warranty instructions, please refer to the warranty terms.
 * Integrated charging -20°C to 55°C and aerosol fire extinguishers are only available in the European market.



MonaWall-SE5

Cleaner Power, Reliable Benefits -
Lighter Weight, Faster Installation.



MonaWall-SE5

Model	MonaWall-SE5
Nominal energy	5kWh
Usable energy (100%DOD) ¹	5kWh
Rated voltage	51.2V
Charge/discharge cut off voltage	44.8V~55.2V
Rated charge/discharge current ²	50A/80A
Max. charge/discharge current ²	100A/100A
Peak Discharge Current ²	200A @ 15s
Communication interface	CAN 2.0/RS485
Scalability	Max. 16 in parallel, Max. 80 kWh

Operating conditions

Installation location	Outdoor or indoor
Ambient Temperature	-20°C to 50°C
Humidity	5% to 95% (no condensation)
Dimensions (W*H*D, mm)	544*533*162
Weight	53kg
Enclosure protection rating	IP65
Altitude	< 4000m
Cooling	Natural convection
Warranty	10 years ³
Certifications	IEC62619/CE/CEI 0-21/UN38.3

1. Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.
2. The current is affected by temperature and SOC.
3. For warranty instructions, please refer to the warranty terms.



Flexible application

- Optimized for wall-mounted installation



Easy to install

- Plug and play
- Compact and Light
- 2 persons installation



Excellent performance

- 100% DOD
- Wider Temperature Range -20°C~50°C, Defies the Harsh Cold



Battery APP (optional)

- Real time monitoring
- Remote maintenance and upgrades





SunESS

Sunwoda SunESS series provide the most safety & reliable energy storage solutions to customer worldwide.



Flexible capacity options

- Stackable module design, easily extend
- 5kWh per module, scalable from 5 to 60kWh



Easy to install

- Without wire connection
- Compact and Light, 2 persons installation



Excellent performance

- 100% DOD
- Reliable operation at -10°C



Remote Data Access&Control

- Real time monitoring
- Remote maintenance and upgrades

SunESS

Model	SunESS-5	SunESS-10	SunESS-15	SunESS-20
Nominal energy	5kWh	10kWh	15kWh	20kWh
Usable energy (100% DOD) ¹	5kWh	10kWh	15kWh	20kWh
Rated voltage	51.2V	51.2V	51.2V	51.2V
Charge/discharge cut off voltage	44.8V~55.2V	44.8V~55.2V	44.8V~55.2V	44.8V~55.2V
Rated charge/discharge current ²	50A/80A	100A/160A	150A/200A	200A/200A
Max. charge/discharge current ²	100A/100A	180A/180A	200A/200A	200A/200A
Communication interface	CAN 2.0/RS485			
DC disconnect	Circuit breaker, 250A, 80V rating			
Scalability	Max. 3 in parallel, Max. 60kWh			

Operating conditions	
Installation location	Outdoor or indoor
Ambient Temperature	Discharging: -20°C to 50°C, Charging: -10°C to 50°C
Humidity	5% to 95% (no condensation)
Dimensions (W*H*D, mm)	573*(597/912/1227/1542)*189
Weight	65kg/115kg/165kg/215kg
Enclosure protection rating	IP65
Altitude	< 4000m
Cooling	Natural convection
Warranty	10 years ³
Certifications	IEC62619/CE/CEI 0-21/UL1973/FCC/UL9540/UL9540A/UN38.3

1. Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.
 2. The current is affected by temperature and SOC.
 3. For warranty instructions, please refer to the warranty terms.










SunESS H

Smart Stacked Energy Storage System

Sunwoda SunESS H series provide the most safety & reliable energy storage solutions to customer worldwide.

-  High voltage (~400V) enabled by built-in DC-DC
-  Flexible capacity configuration (5-60kWh)
-  Module level energy optimization, mixed use of old and new
-  Compatible with market-leading hybrid inverter(> 10 brands)
-  Safe and long-life LiFePO4 (LFP) technology, with 6000 cycles

SunESS - H

Model	SunESS-5H	SunESS-10H	SunESS-15H	SunESS-20H
Nominal energy	5kWh	10kWh	15kWh	20kWh
Usable energy (90% DOD) ¹	4.5kWh	9kWh	13.5kWh	18kWh
Rated voltage	400V	400V	400V	400V
Operating voltage range	350V~450V	350V~450V	350V~450V	350V~450V
Rated charge/discharge power ²	2.5kW	5kW	7.5kW	10kW
Peak output power	4.2kW/20s	8.4kW/20s	12.6kW/20s	16.8kW/20s
Communication interface	CAN 2.0/RS485			
DC disconnect	Circuit breaker, 50A, 1000V rating			
Scalability ³	Max. 3 in parallel, Max. 60 kWh			

Operating conditions	
Installation location	Outdoor or indoor
Ambient Temperature ⁴	-20°C to 50°C
Humidity	5% to 95% (no condensation)
Dimensions (W*H*D, mm)	653*(553/868/1183/1498)*189
Weight	65kg/117kg/169kg/221kg
Enclosure protection rating	IP65
Altitude	< 4000m
Cooling	Natural convection
Noise emission	< 29dB
Warranty	10 year ⁵
Certifications	IEC62619/CE/UN38.3/VDE 2510-50/CEI 0-21/FCC/UL1973

1. Test conditions: 90% DOD, 0.2C charge & discharge at 25°C.
 2. The power is affected by temperature and SOC.
 3. Optional Data box supports three-cluster parallel operation, refer to the user manual for details.
 4. Low-temperature operation requires the inverter to respond battery's heating requests.
 5. For warranty instructions, please refer to the warranty terms.



Max. 12 years warranty

SunESS Power All-in-One



All-in-One

- Modular, Compact and Simple
- Easy Installation(30 Minutes Max)
- Flexible Battery Expansion (5kWh-40kWh)



Safe and reliable

- Short circuit protection
- Optional Arc-fault prevention (AFCl)
- Optional rapid shut-down (RSD)



Withstand 150% inrush current over 10 seconds



Support 150% oversized PV power



Support 100% 3 phase Unbalanced load



Ultra-fast switching (10ms) from On-grid to Off-grid state



Max. 12 years' warranty



Support heat pump integration

System Parameters								
Norminal Output Power	5~15kW							
Number of battery module	1	2	3	4	5	6	7	8
Battery nominal energy	5kWh	10kWh	15kWh	20kWh	25kWh	30kWh	35kWh	40kWh
Dimensions (W/H/D) mm	650/833/250	650/1148/250	650/1463/250	650/1778/250	650/1463/250 653/868/189	650/1463/250 653/1183/189	650/1778/250 653/1183/189	650/1778/250 653/1498/189
Total weight	96kg	148kg	200kg	252kg	200kg+117kg	200kg+169kg	252kg+169kg	252kg+221kg
Ambient Temperature	-4°F to 122°F(-20°C to 50°C)							
Relative humidity	5% to 95% (no condensation)							
Altitude	<4000m(>3000m derating)							
Cooling method	Air cooling							
Noise emission	<47dB							
Ingress protection	IP65							
Installation method	Stacked/Leaning against the wall							
Safety standards	EN 62109-1/EN 62109-2/EN 62477-1/EN 61000-6-1/EN61000-6-3							
Grid standards	EN 50549-1/VDE4105/VDE 0124/INC-RfG:2016/IEFS:2018/Tor Type A/ NA/EEA-NE7-CH2020							
Battery standards	IEC62619/CE/UN38.3/VDE 2510-50/FCC/UL1973							

SunESS Power All-in-One

Battery Module						
Battery Type	LiFePO4					
Nominal energy	5kWh					
Usable energy	4.5kWh					
Rated voltage	400V					
Voltage range	350~450V					
Rated charge/discharge power	2.5kW					
Peak output power	4.2kW/20s					
Weight	52kg					
Dimensions (W/H/D)	653/315/189mm					
Inverter Module						
	SW5KH3UT SW5KH3UT-BE	SW6KH3UT SW6KH3UT-BE	SW8KH3UT SW8KH3UT-BE	SW10KH3UT SW10KH3UT-BE	SW12KH3UT SW12KH3UT-BE	SW15KH3UT SW15KH3UT-BE
PV Input Parameters						
Max. input power	8000W	9000W	12000W	15000W	22500W	22500W
Max. input voltage	1000V					
MPPT voltage range	180~850V					
Start-up voltage	180V					
Max. input current per MPPT*	A: 15A	A: 15A	A: 15A / B: 30A	A: 15A / B: 30A	A: 15A / B: 30A	A: 15A / B: 30A
Max. short-circuit current per MPPT*	A: 19A	A: 19A	A: 19A / B: 38A	A: 19A / B: 38A	A: 19A / B: 38A	A: 19A / B: 38A
Number of MPPTs	1	1	2	2	2	2
Number of input strings per MPPT*	A: 1	A: 1	A: 1/ B: 2	A: 1/ B: 2	A: 1/ B: 2	A: 1/ B: 2
Battery Input Parameters						
Support battery capacity	5~40kWh					
Rated battery voltage	400V					
Battery voltage range	350~450V					
Max. continuous charging current	23A			46A		
Max. continuous discharge current	23A			46A		
Max. discharge power	5000W	6000W	8000W	10000W	12000W	15000W
Max. charging power	5000W	6000W	8000W	10000W	12000W	15000W
Output parameters(On-grid)						
Rated output power	5000W	6000W	8000W	10000W	12000W	15000W
Max. output apparent power	5000VA	6000VA	8000VA	10000VA	12000VA	15000VA
Max. input apparent power	8000VA	9000VA	12000VA	15000VA	18000VA	22500VA
Rated output voltage	220/380V 230/400V 3W/N/PE					
Rated output frequency	50Hz					
Max. output current	8.4A	10A	13.4A	16.7A	20A	25A
Max. input current	12.2A	13.7A	18.2A	22.8A	27.4A	34.2A
Power factor	0.8 leading to 0.8 lagging					
THDi	<3%					
Output parameters(Off-grid)						
Off-grid rated apparent power	5000VA	6000VA	8000VA	10000VA	12000VA	15000VA
Max. output apparent power	5500VA	6600VA	8800VA	11000VA	13200VA	16500VA
Max. output current	7.6A	10A	13.4A	16.7A	20A	25A
Rated output voltage	220/380V 230/400V 3W/N/PE					
Rated output frequency	50Hz					
THDv (@Linear Load)	<3%					
Efficiency						
Max. efficiency	97.4%	97.4%	97.8%	97.8%	97.8%	97.8%
Euro. Efficiency	96.5%	96.5%	96.8%	96.8%	97%	97%
Protection						
Input DC switch	Integrated					
Insulation Resistance Detection	Integrated					
Residual current monitoring	Integrated					
Input reverse polarity protection	Yes					
Anti-Islanding Protection	Yes					
Over current protection	Yes					
AC short circuit protection	Yes					
AC Over voltage protection	Yes					
AFCl(Arc Fault Circuit Interrupter) Protection	Optional					
Dry contact remote scheduling	Yes					
DC Surge Protection	Integrated					
AC surge protection	Integrated					
Basic parameters						
Display	LED&APP					
BMS communication method	CAN					
Meter communication method	RS485					
Monitoring method	WiFi/bluetooth					
Topology	Transformerless					
Operating temperature range	- 30~60 °C (> 45°Cderating)					
Weight	41kg					
Dimensions (W/H/D)	650/480/250mm					

* "A" corresponds to the silkscreen marking "PV2" on the inverter. "B" corresponds to the silkscreen marking "PV1" on the inverter.

OASIS Flex



Easy to install and deploy with large space utilization



Unique modular design & flexible function configuration



Real time monitoring , remote maintenance and upgrades



Strong scalability, simple & convenient expansion on DC sides

OASIS Flex

System Model	CIESS25-R-S	CIESS30-R-S	CIESS35-R-S	CIESS40-R-S	CIESS45-R-S	CIESS50-R-S	CIESS55-R-S	CIESS60-R-S	CIESS65-R-S	CIESS70-R-S	CIESS75-R-S	CIESS80-R-S
Number of battery packs	5	6	7	8	9	10	11	12	13	14	15	16
Rated voltage	256V	307.2V	358.4V	409.6V	460.8V	512V	563.2V	614.4V	665.6V	716.8V	768V	819.2V
Voltage range	224~288V	268.8~345.6V	313.6~403.2V	358.4~460.8V	403.2~518.4V	448~576V	492.8~633.6V	537.6~691.2V	582.4~748.8V	627.2~806.4V	672~864V	716.8~921.6V
Rated energy	25kWh	30kWh	35kWh	40kWh	45kWh	50kWh	55kWh	60kWh	65kWh	70kWh	75kWh	80kWh
Max. C-rate	1C	1C	1C	1C	1C	1C	1C	1C	1C	1C	1C	1C
Weight	248kg	294kg	340kg	386kg	432kg	478kg	524kg	570kg	616kg	662kg	708kg	754kg
Dimension (W*D*H, mm)	480*410*1040	480*410*1210	1180*410*700	1180*410*870	1180*410*870	1180*410*1040	1180*410*1040	1180*410*1210	1880*410*870	1880*410*870	1880*410*1040	1880*410*1040
Cycle life	6000 times (25°C, 0.5C/0.5C, 90%DOD, EOL60%)*											
Communication	CAN/RS485/WiFi/ETH											
Expansion	Support in parallel up to 6 clusters											
Enclosure protection rating	IP20											
Cooling	Natural cooling											
Ambient temperature	Charge: 0°C~50°C Discharge: -20°C~55°C											
Ambient humidity	10%~95%RH											
Altitude	2000m											
Short circuit protection	Yes											
Over current protection	Yes											
Over charge protection	Yes											
Over discharge protection	Yes											
Over voltage protection	Yes											
Under voltage protection	Yes											
Over temperature protection	Yes											
Certifications	UN38.3/CE/IEC62619/IEC62477											

Module Parameter	
Module Model	B051100502
Module Rated voltage	51.2V
Module Energy	5kWh
Dimensions	443*135*410mm (W*H*D)
Module Weight	43.3kg
Warranty	5 years*

* For warranty instructions, please refer to the warranty terms.





OASIS 60



OASIS 60

Model Type	CIESS 60
System Parameters	
Battery number	12pcs
Rated voltage	614.4V
Voltage range	537.6~691.2V
Max. C-rate	1C
Rated energy	60kWh
Weight	807kg
Dimensions	890*2140*715mm (W*H*D)
Expansion	Supports up to 6 battery cabinets in parallel
Protection level	IP55
Temperature control method	Air-conditioning
Ambient temperature	-20°C~55°C
Recommended storage temperature	20°C~30°C
Ambient humidity	10%~95% (no condensation)
Communication	CAN/RS485/Wifi
Warranty	5 years*
Altitude	2000m
Cycle life	6000 times (25°C, 0.5C/0.5C, 90%DOD, EOL60%)*
Basic protection functions	Charge overvoltage, discharge under voltage, overcurrent, over temperature, short circuit protection, etc.
Accreditation	IEC62619/CE/UN38.3/IEC62477

* For warranty instructions, please refer to the warranty terms.

- 
Plug-and-Play Installation (Pre-Wired), Convenient Expansion from 60kWh to 360kWh; IP55 Rated.
- 
An Outdoor Battery with Air Cooling for Ultimate Convenience.
- 
Equipped with Fire Suppression System, Smoke Sensors, and Emergency Button for Enhanced Safety and Protection.
- 
Compatibility with Solis, Deye, and Solinteg inverters offers unparalleled flexibility, empowering you to tailor your energy solution.



OASIS Rack Pro +



OASIS Rack Pro +

Product Model	CISS-100-RP	CISS-120-RP	CISS-160-RP	CISS-200-RP	CISS-240-RP
DC side parameter					
Cell specification	3.2V 314Ah				
Cell type	LFP				
PACK specification	1P20S, 64V, 20kWh				
PACK quantity	5	6	8	10	12
Rated capacity	100kWh	120kWh	160kWh	200kWh	240kWh
Rated voltage	320V	384V	512V	640V	768V
Voltage Range	290~360V	348~432V	464~576V	580~720V	696~864V
Max. Charge and Discharge Ratio	0.7C	0.7C	0.7C	0.7C	0.7C
System parameter					
Communication mode	CAN, RS485, Ethernet				
Cooling method	Intelligent air cooling				
Installation method	Indoor				
Protection degree	IP20				
Ambient temperature	0°C~+55°C (> 45°C derating)				
Ambient humidity	0~95% (no condensation)				
Altitude	3000m				
Cell Cycle Life	9000 times (25°C, 0.5C/0.5C, 90%DOD, EOL70%)*				
Dimensions	1160*2060*976mm(W*H*D)				
Weight	< 2100kg				
Certification	UN38.3/IEC 62619/IEC 61000/IEC 62477				
* For warranty instructions, please refer to the warranty terms.					



Easy to install and deploy with large space utilization



Unique modular design & flexible function configuration



Real time monitoring , remote maintenance and upgrades



Strong scalability, simple & convenient expansion on DC sides



OASIS A200



PV and Storage Integration



Peak shaving and valley filling



Emergency Backup



Micro-grid



Cloud Platform Scheduling



Frequency and Peak Modulation

OASIS A200

Product Model	CIESS-120	CIESS-160	CIESS-200
DC Side			
Cell Type	LFP		
Cell Specification	3.2V 314Ah		
PACK Capacity	20kWh		
PACK quantity	6	8	10
Rated Capacity	120kWh	160kWh	200kWh
Rated Voltage	384V	512V	640V
Voltage range	348~432V	464~576V	580~720V
Max. Charge and Discharge Ratio	0.7C	0.7C	0.7C
System Parameter			
Communication Interface	CAN, RS485, Ethernet		
Cooling Mode	Industrial Air-conditioning		
Display	Touch Screen, Cloud Platform		
Installation Mode	Outdoor		
Protection Grade	IP55		
Ambient Temperature	-30°C~+55°C (> 45°C derating)		
Ambient Humidity	0~95% (no condensation)		
Altitude	3000m		
Cell Cycle Life	9000 times (25°C, 0.5C/0.5C, 90%DOD, EOL70%)*		
Dimensions	1150*2200*1375mm (W*H*D)		
Weight	< 2300kg		
Certification	UN38.3/IEC 62619/IEC 61000/IEC 62477		
* For warranty instructions, please refer to the warranty terms.			

OASIS A200 All-in-One



Storage Integration, Multi-protection Design



Peak shaving and valley filling



Flexible installation, Easy to expand, Plug and Play

OASIS A200 All-in-One

Product Model	CIESS-A-200
DC Side	
Cell Type	LFP
Cell Specification	3.2V 314Ah
PACK Capacity	20kWh
Rated Capacity	200kWh
Rated Voltage	640V
AC Side	
Rated Output Power	125kW
THDi	< 3% (Rated Power)
Rated Voltage	400V (300~440)
Rated Frequency	50/60Hz (±5Hz)
Power Factor	-1 (Leading) ~ 1 (Lagging)
System Parameter	
Communication Interface	CAN, RS485, Ethernet
Cooling Mode	Industrial Air-conditioning
Display	Touch Screen, Cloud Platform
Installation Mode	Outdoor
Protection Grade	IP55
Ambient Temperature	-30°C~+55°C (> 45°C derating)
Ambient Humidity	0~95% (no condensation)
Altitude	3000m
Cell Cycle Life	9000 times (25°C, 0.5C/0.5C, 90%DOD, EOL70%)*
Dimensions	1150*2200*1375mm (W*H*D)
Weight	< 2400kg
Certification	UN38.3/IEC 62619/IEC 61000/IEC 62477/VDE4105/4110/G99/EN50549/NTS 631
* For warranty instructions, please refer to the warranty terms.	




OASIS L241



OASIS L241

Single Cluster Solution	
Model Type	OASIS L241
Rated energy	241kWh
Cell Specification	3.2V 314Ah
PACK Capacity	48.2kWh
No.of modules	5
Rated voltage	768V
Voltage range	624~876V
Max. C-rate	0.7C
Ambient temperature	-30°C~55°C
Ambient Humidity	0~95% (no condensation)
Altitude	2000m
Cooling method	Liquid cooling
Fire suppression system	Cluster level aerosol agent fire suppression+Combustible gas detection and ventilation linkage+Explosion-proof Valve
Auxiliary power supply	220VAC/50Hz
Communication interface	CAN/RS485/Ethernet
Enclosure protection rating	IP55
Cell Cycle Life	9000 times (25°C, 0.5C/0.5C, 90%DOD, EOL70%)*
Dimensions	1570*2380*1350mm (W*H*D)
Weight	2520kg
Accreditation	CE/IEC62619/UL1973/UN38.3/IEC62477

* For warranty instructions, please refer to the warranty terms.

- 
Ultimate safety, Multi-protection design,
 with combustible gas venting and explosion relief design
- 
Innovative liquid cooling technology, extending battery
 lifespan by over 20%.
- 
Modular design, support capacity expansion, flexible installation



OASIS L261



Storage Integration, Multi-protection Design



Peaking and Shaving



Emergency Backup

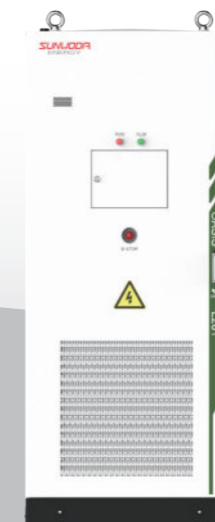


Micro-grid

OASIS L261

Product Model	CISS-261
DC Side	
Cell Type	LFP
Cell Specification	3.2V 314Ah
PACK Capacity	52.2kWh
No. of Packs	5
Rated Capacity	261kWh
Rated Voltage	832V
Voltage Range	702~936V
Max. C-rate	0.5C
System Parameter	
Communication Interface	CAN/RS485/Ethernet
Cooling Mode	Liquid cooling
Installation Mode	Outdoor
Protection Grade	IP55
Ambient Temperature	-30°C~+55°C (>45°C derating)
Ambient Humidity	5%~95% (no condensation)
Altitude	2000m
Cell Cycle Life	9000 times (25°C, 0.5C/0.5C, 90%DOD, EOL70%)*
Dimensions	980*2350*1390mm (W*H*D)
Weight	< 2300kg
Certification	UN38.3/CE/IEC

* For warranty instructions, please refer to the warranty terms.



OASIS L261 All-in-One



Storage Integration, Multi-protection Design



Peak shaving and valley filling



Flexible installation, Easy to expand, Plug and Play



Support ms-level and seamless on-off grid switching

OASIS L261 All-in-One

Product Model	CIESS-L-261
DC Side	
Cell Type	LFP
Cell Specification	3.2V 314Ah
PACK Capacity	52.2kWh
Rated Capacity	261kWh
Rated Voltage	832V
AC side (On-grid)	
Rated Output Power	125kW
THDi	< 3% (Rated Power)
Rated Voltage	400V (300~440V)
Rated Frequency	50/60Hz (±2.5Hz)
Power Factor	-1 (Leading) ~ 1 (Lagging)
AC Side (off-grid, Optional STS Module)	
Rated Output Power	125kW
Wiring Method	3L+N
Rated Output Voltage	400V
Rated Output Frequency	50/60Hz
THDu	<3% (Linear load)
System Parameter	
Communication Interface	CAN/RS485/Ethernet
Cooling Mode	Liquid cooling
Installation Mode	Outdoor
Protection Grade	IP55
Ambient Temperature	-30°C~+55°C (> 45°C derating)
Ambient Humidity	5%~95% (no condensation)
Altitude	2000m
Cell Cycle Life	9000 times (25°C, 0.5C/0.5C, 90%DOD, EOL70%)*
Dimensions	980*2350*1390mm (W*H*D)
Weight	< 2400kg

* For warranty instructions, please refer to the warranty terms.


OASIS L385


Liquid Cooling Solution
Outdoor Liquid Cooling Cabinet





 Easily configurable and scalable


 Less LCOS within life span

 Long service life

 Smart management

 High system safety

 Shorter deployment time

 High energy density

OASIS L385

Single Cluster Solution	
Model Type	OASIS L385
Rated energy	385kWh
Cell Specification	3.2V 314Ah
PACK Capacity	48.2kWh
No.of modules	8
Rated voltage	1228.8V
Voltage range	998.4~1401.6V
Max. C-rate	0.7C
Ambient temperature	-30°C~55°C
Ambient Humidity	0~95% (no condensation)
Altitude	2000m
Cooling method	Liquid cooling
Fire suppression system	Cluster level aerosol agent fire suppression+Combustible gas detection and ventilation linkage+Explosion-proof Valve
Auxiliary power supply	220VAC/50Hz
Communication interface	CAN/RS485/Ethernet
Enclosure protection rating	IP55
Cell Cycle Life	9000 times (25°C, 0.5C/0.5C, 90%DOD, EOL70%)*
Dimensions	1570mm*2380*1350mm (W*H*D)
Weight	3480kg
Accreditation	CE/IEC62619/UL1973/UN38.3/IEC62477
* For warranty instructions, please refer to the warranty terms.	





OASIS Power





OASIS Power

Product Model	OSP-200K	OSP-400K
Battery Side Parameter		
Operating Voltage Range	650~950V	
Full Power Voltage Range	715~950V	
Max. Input Current	342A/171A*2	342A*2/171A*4
Connected Number of Battery Cluster Branches	1/2	2/4
Grid Side Parameter (On Grid)		
Max. Output Power	220kVA	440kVA
Nominal Output Power	200kW	400kW
Nominal Output Voltage	230/400V	
Nominal Output Current	288A/144A*2	288A*2/144A*4
Max. Output Current	318A/159A*2	318A*2/159A*4
Nominal frequency	50/60(±5Hz)	
THDi	≤3%	
Power Factor	-1(Leading)~1(Laging)	
Wiring Method	3W+N+PE	
Grid Side Parameter (Off Grid)		
Nominal Power	180kW	/
Nominal Output Voltage	230V/400V	/
Nominal Output Current	260A/130A*2	/
Nominal Frequency	50/60Hz	/
THDu	< 3% (Linear load)	/
System Parameter		
Temperature	-20°C~+55°C (> 45°C derating)	
Humidity	5~95%RH (no condensation)	
Altitude	2000m	
Cooling Mode	Intelligent Air-Cooling	
Protection Grade	IP54	
Dimensions	750*2060*1200mm/1200*2380*1200mm (W*H*D)	1200*2380*1200mm(W*H*D)
Weight	< 1000kg	
Accreditation	IEC 61000; IEC 62477; EN 50549-1, EN 50549-10, EN 50438, C10/C11	
* The functional configurations of the above products can be selected according to different needs.		

- 

Modularized design, support optional STS module; flexible capacity expansion, convenient operation and maintenance.
- 

Adjustable output power, charge and discharge power can be set, strong grid adaptability.
- 

Smooth switching between off-grid and on-grid, uninterrupted power supply to the load.
- 

Integrate LCU functions, support external EMS energy management strategies, can participate in the power market auxiliary services.

Approved Compatibility List of Inverter Brands

LV Residential Energy Storage Solution

Inverter brand	Inverter model	SUNWODA ENERGY BATTERY SERIES					
		SunESS Series	Atrix Series				
		SunESS	Atrix SE	MonaWall-SE5	Atrix Basic SE	Atrix Smart	Atrix Max+
SMA	SI 4.4-M SI 6.0-H SI 8.0-H	✓	✓	✓	✓	✓	✓
Victron	MultiPlus-II 48 Series Quattro 48 Series	✓	✓	✓	✓	✓	✓
Solis	RHI-(3-6)K-4BES-5G RHI-(3-5)K-4BES S6-EH1P(3-6)K-L S6-EH1P(3-10)K-L-PLUS S6-EH3P(8-15)K02-NV-YD-L S5-EH1P(3-6)K-L	✓ ✓ ✓ ✓ ✓ (CEI 0-21 listing)	✓ ✓ ✓ ✓ ✓ (CEI 0-21 listing)	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
Deye	SUN-3/3.6/5/6K-SG03LP1-EU SUN-5/6/8/10/12K-SG04LP3-EU SUN-3.6/5/6/7.6/8K-SG01LP1-EU SUN-12/14/16K-SG01LP1-EU	✓ ✓ (CEI 0-21 listing) ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓
Goodwe	GW3648D/5048D-ES EM:GW3048/5048-EM LV S-BP:GW3600S/5000S-BP GW(5-20)K-ET-L-G10	✓	✓	✓	✓	✓	✓
Solplanet	ASW3000/3680/4000/5000/6000H-S2	✓	✓	✓	✓	✓	✓
Afore	AF1/1.5/2/2.5/3/3.6K-SL-1 AF3/3.6/4/4.6/5/5.5/6K-SL	✓	✓	✓	✓	✓	✓
invtr	XD3K6/4K/4K6/5K/6KTL	✓	✓	✓	✓	✓	✓
LuxpowerLU	LXP-LB-US 12K LXP3/3.6/4.6/6K, 1phase SNA3000/4000/5000/6000	✓ (UL9540 listing) ✓ (CEI 0-21 listing) ✓	✓ ✓ (CEI 0-21 listing) ✓	✓ ✓ (CEI 0-21 listing) ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
Megarevo	R3K/3K6/4K/4K6/5K/6K1 R5K/6K/7K6/8K/10K1NA	✓ ✓ (UL9540 listing)	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
Sacolar	M5000H-48BP,MHP series MHP 3000 series MLP series,SP series	✓	✓	✓	✓	✓	✓
Solark	Sol-Ark-5k-P/Sol-Ark-8k-P/Sol-Ark-12k-P	✓ (UL9540 listing)	✓	✓	✓	✓	✓
Senergy	SE 3K6HB-60 SE 4K6/5K/6KHB-120 SE 8/10KHB-T/EU SE 5K/6K/8K/10KHB-UL	✓	✓	✓	✓	✓	✓
Hoymiles	HYS-LV Series HAS-LV Series	✓	✓	✓	✓	✓	✓
Voltronic Power	Axpert VM III/ 4 Series Axpert MKS III/4 Series Axpert MAX/ II Series InfinitiSolar VIII/4 Series	✓	✓	✓	✓	✓	✓
GREENHEISS	GH-IH 3/4/5/6 2M STYLE GH-IH 3/4/5/6 2M-15 STYLE	✓	✓	✓	✓	✓	✓
SAJ	H1-(3-6)K-S2 H1-(3-6)K-S2-15 H2-(5-10)K-LS2	✓	✓	✓	✓	✓	✓
TBB	RiiO Sun II Series Tyrann/Kinergier pro II Series Matrix II series	✓	✓	✓	✓	✓	✓
Sinexcel	Isuna 3000S-6000S Isuna 3000S0-12000S0	✓	✓	✓	✓	✓	✓
SRNE	HFP4850S80-H/ASP48100S200-H HESP4860S100-H HESP48100S200-H HESP48120S200-H	✓	✓	✓	✓	✓	✓
OPTI	SP6000 ~ 11000 Handy Ultra SP4000 ~ 6000 Handy Plus	✓	✓	✓	✓	✓	✓
Turbo Energy	Hybrid Series 48V 5.0/6.0 Three phase Hybrid Series 48V 5.0/10.0	✓	✓	✓	✓	✓	✓
hypontech	HES-3000/3680/4000/5000/6000	✓	✓	✓	✓	✓	✓
Sofar	HYD 3-6K-EP	✓	✓	✓	✓	✓	✓
SolaX	X1-HYB-LV/X1-Lite-LV	✓	✓	✓	✓	✓	✓
GROWATT	SPH 3000-6000TL	✓	✓	✓	✓	✓	✓
Ingeteam	INGECON SUN STORAGE 1Play TL M 3-6kW	✓	✓	✓	✓	✓	✓
Sungrow	MG5RL/MG6RL	✓	✓	✓	✓	✓	✓
Solitia	S.HES-3000/3680/4000/5000/6000	✓	✓	✓	✓	✓	✓



*The communication protocols of SunESS Series /Atrix Series/MonaWall SE5 Series/Atrix basic Series are the same.

HV Residential Energy Storage Solution



Inverter brand	Inverter model	SUNWODA ENERGY BATTERY SERIES
		SunESS-H
Solis	S6-EH3P(5-10)K-H-EU S6-EH3P(12-20)K-H	✓ (CEI 0-21 listing) ✓
Deye	SUN-5/6/8/10/12/15/20K/25K-SG01HP3-EU-AM2 SUN-30K-SG01HP3-US-BM SUN-29.9/30/35/40/50K-SG01HP3-EU-BM SUN-60K-SG01HP3-US-BM	✓
SOLINTEG	MHS-3~8K-30 MHT-4~12K-25 MHT-10~20K-40	✓
YINERGY	HI-3P(5-12)K-H	✓
Hoymiles	HYT-(5.0-12.0)HV-EUG1 HYT-(5.0-12.0)HV-AUG1 HAT-(5.0-10.0)HV-EUG1	✓
Sinexcel	Isuna 5000-20000T Isuna D5000-12K-SH Isuna D5000-12K-TH	✓
Afore	AF(3K-30K)TH	✓
LuxpowerLU	TriP 6-20K	✓
hypontech	HHT-5000/6000/8000/10000/12000/15000	✓


*The communication protocols of SunESS-H Series /SunESS-H2 Series are the same.


C&I Energy Storage Solution

Inverter brand	Inverter model	SUNWODA ENERGY BATTERY SERIES	
		 CIESS Series	 CIESS-R-S Series
SMA	Sunny Island X 30/50	✓	✓
Solis	S6-EH3P(29.9-50)K-H	✓ (CEI 0-21/0-16 listing)	✓ (CEI 0-21/0-16 listing)
	S6-EH3P(75-80)K10-NV-YD-H	/	✓
Deye	SUN-5/6/8/10/12/15/20K/25K-SG01HP3-EU-AM2	✓	✓
	SUN-29.9/30/35/40/50K-SG01HP3-EU-BM	✓ (CEI 0-21 listing)	✓ (CEI 0-21 listing)
	SUN-60/70/75/80K-SG02HP3-EU-EM6	✓	✓
SOLINTEG	MHT-10K/12K/15K/20K-40	✓	✓
	MHT-25K/30K/36K/40K/50K-100	✓ (CEI 0-21/0-16 listing)	✓ (CEI 0-21/0-16 listing)
Afore	AF(3K-30K)TH	✓	✓
Sofar	HYD-20KTL-3PH	✓	✓
Sinexcel	Isuna 20000T/PWS2-30P-CN	✓	✓
Turbo Energy	Hybrid Series HV 30.0/50.0	✓	✓
GROWATT	WIT 50K-HU/WIT 63K-HU/WIT 75K-HU/WIT 100K-HU	✓	✓
Megarevo	MPS0030/MPS0050	✓	✓
SAJ	CH2-29.9~50K-T6-P	✓	✓
GREENHEISS	GH-I1TH 30 3M ADVANCED	✓	✓
Salicru	EQUINOX2 HSX	/	✓

*The communication protocols of CIESS Series /CIESS-R/CIESS-R-S Series are the same.

Inverter brand	Inverter model	SUNWODA ENERGY BATTERY SERIES	
		 OASIS A200	 OASIS Rack Pro+
SMA	Sunny Island X 30/50	✓	✓
Solis	S6-EH3P(29.9-50)K-H	✓	✓
	S6-EH3P(75-125)K10-NV-YD-H	✓	✓
Deye	SUN-29.9/30/35/40/50K-SG01HP3-EU-BM	✓	✓
	SUN-60/70/75/80K-SG02HP3-EU-EM6	✓	✓
SOLINTEG	MHT-25K/30K/36K/40K/50K-100	✓	✓
	M2HT-25K/30K/40K/50K-150	✓	✓
	M2HT-75~125K-300	✓	✓
Megarevo	MPS0030/MPS0050/MPS0100/MPS0150/MPS0250/MPS0500	✓	✓
ATESS	PCS100/PCS250/PCS500/PCS630/PCS1000	✓	✓
SAJ	CH2-29.9~50K-T6-P	✓	✓
Sinexcel	Isuna L22/25/29.9/30/40/42.5/50K-TH	✓	✓

Inverter brand	Inverter model	SUNWODA ENERGY BATTERY SERIES
		 OASIS L241
SMA	Sunny Island X 30/50	✓
KACO	92.0 TL3-S	✓
ATESS	PCS100/PCS250/PCS500/PCS630/PCS1000 HPS100/150-HV	✓
GROWATT	WIT 50K-HU/WIT 63K-HU/WIT 75K-HU/WIT 100K-HU	✓
Sinexcel	PWS1-500KTL-EX	✓
Megarevo	MPS0100/MPS0150/MPS0250/MPS0500	✓
SOLINTEG	M2HT-25K/30K/40K/50K-150	✓
	M2HT-75~125K-300	✓
Deye	SUN-60/70/75/80K-SG02HP3-EU-EM6	✓
Solis	S6-EH3P(75-125)K10-NV-YD-H	✓
Sunwoda	OASIS Power(200, 400kW)	✓

Inverter brand	Inverter model	SUNWODA ENERGY BATTERY SERIES
		 OASIS L261
SMA	Sunny Island X 30/50	✓
KACO	92.0 TL3-S	✓
Deye	SUN-60/70/75/80K-SG02HP3-EU-EM6	✓
Solis	S6-EH3P(75-125)K10-NV-YD-H	✓
SOLINTEG	M2HT-75~125K-300	✓
GROWATT	WIT 50K-HU/WIT 63K-HU/WIT 75K-HU/WIT 100K-HU	✓
Sunwoda	OASIS Power(200, 400kW)	✓