

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

Sunwoda Inside, Empower Our Future!



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IN THE PAST 27 YEARS

we have been everywhere in your daily life

Cellphone battery

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

Consumer battery

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

Electric vehicle battery

Since 2012, Sunwoda Group has focused on EV batteries.

Energy storage system and solution

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



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 27 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



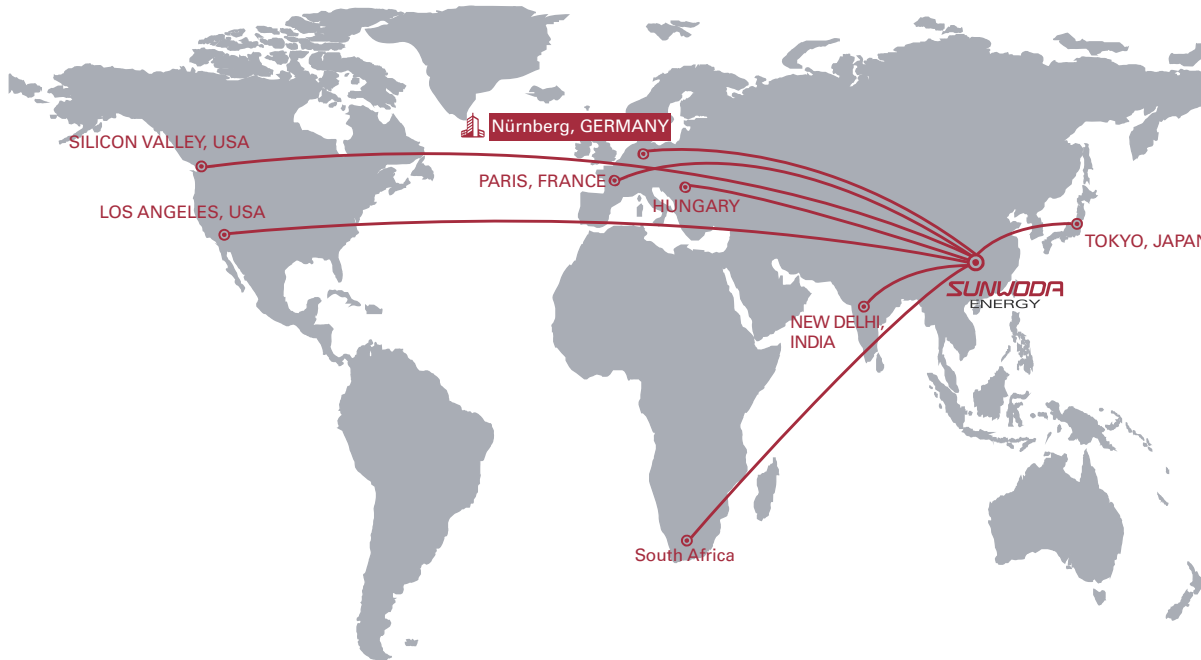
27 years
Focus on new energy industry for 27 years



246GWh
Total production capacity



50000+
50000+ staff worldwide



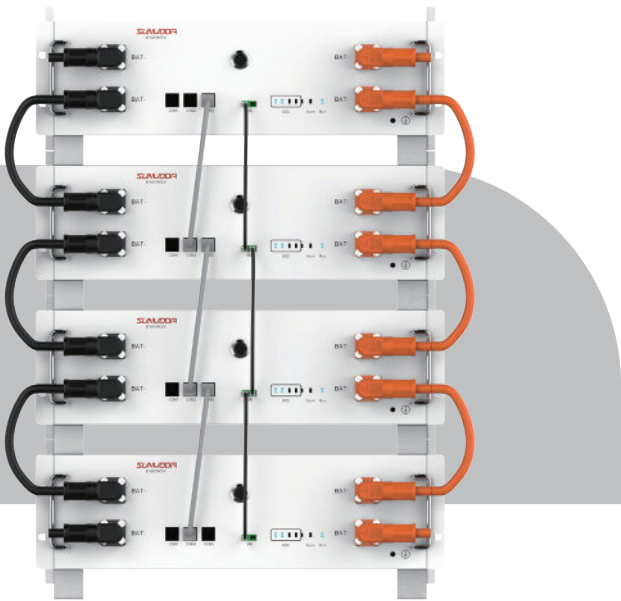
Globalization

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



Atrix

Sunwoda Atrix series adopts a flexible modular design, which can be expanded from 5 kWh of a single module to 120 kWh of 24 battery modules.



Flexible application

- Optimized for stack and build-in cabinet installation



Easy to install

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



Excellent performance

- 100% DOD
- Operate at -10°C without any limitation and attenuation



Battery APP (Optional)

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

Atrix

Model	Atrix-5	Atrix-10	Atrix-15	Atrix-20
Nominal energy	5kWh	10kWh	15kWh	20kWh
Usable energy (100% DOD)	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
Roundtrip efficiency	> 98%	> 98%	> 98%	> 98%
Rated charge/discharge current	50A/50A	100A/100A	150A/150A	200A/200A
Max. charge/discharge current	100A/100A	180A/180A	200A/200A	200A/200A
Communication interface	CAN 2.0/RS485			
Scalability	Max. 24 in parallel, Max. 120 kWh			

Operating conditions	
Installation location	Indoor
Operating temperature	Discharging:-4°F to 122°F (-20°C to 50°C), Charging:14°F to 122°F (-10°C to 50°C)
Humidity	10% to 95%, non-condensation
Dimensions (W*H*D, mm)	482*135*433/PACK
Weight	45kg/90kg/135kg/180kg
Enclosure protection rating	IP20
Altitude	<4000m
Cooling	Natural convection
Warranty	10 years*
Certificates	IEC62619/CE/CEI 0-21/UL1973/FCC/UN38.3
* DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.	
* Charge/discharge derating occurs when the operating temperature from -10°C to 5°C.	



Atrix basic

Sunwoda Atrix basic adopts a flexible modular design, which can be expanded from 5 kWh of a single module to 120 kWh of 24 battery modules.



Flexible application

- Optimized for stack 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 basic

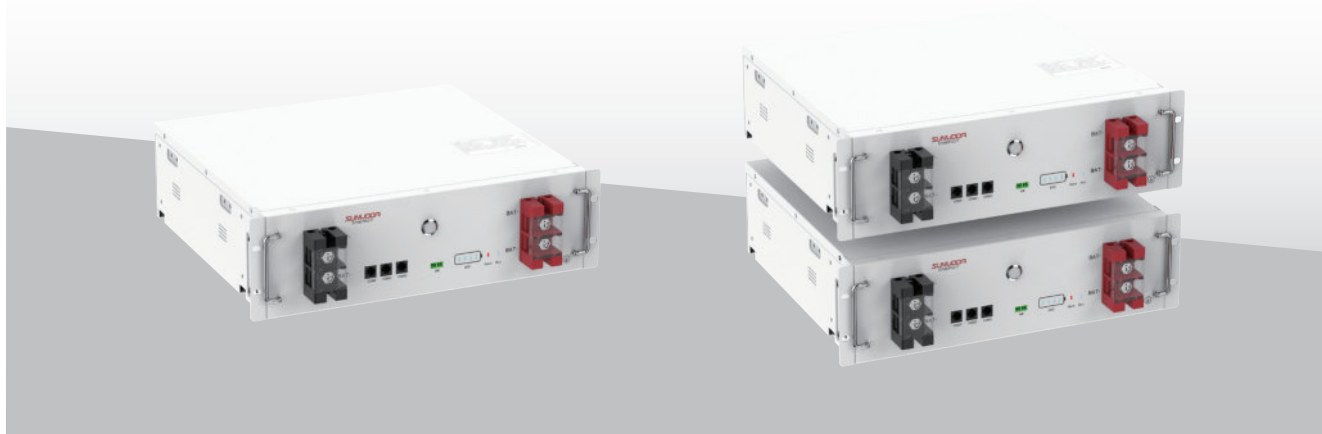
Model	Atrix basic-5	Atrix basic-10	Atrix basic-15	Atrix basic-20
Nominal energy	5kWh	10kWh	15kWh	20kWh
Usable energy (90% DOD)	4.5kWh	9kWh	13.5kWh	18kWh
Rated voltage	51.2V	51.2V	51.2V	51.2V
Charge/discharge cut off voltage	44.8V~55.2V	44.8V~55.2V	44.8V~55.2V	44.8V~55.2V
Roundtrip efficiency	>98%	>98%	>98%	>98%
Rated charge/discharge current	50A/50A	100A/100A	150A/150A	200A/200A
Max. charge/discharge current	100A/100A	180A/180A	200A/200A	200A/200A
Communication interface	CAN 2.0/RS485			
Scalability	Max. 24 in parallel, Max. 120 kWh			

Operating conditions

Operating temperature	Discharging:-4°F to 122°F (-20°C to 50°C), Charging:32°F to 122°F (0°C to 50°C)
Dimensions (W*H*D, mm)	482*135*433/PACK
Weight	45kg/90kg/135kg/180kg
Enclosure protection rating	IP20
Warranty	10 years*
Certifications	IEC62619/CE/UN38.3

* DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.

* Charge/discharge derating occurs when the operating temperature from -10°C to 5°C.



Atrix Smart



Modular design, wall mounted installation



Plug and play, save time and effort, cost-effective



Support 100%DOD, low temperature operation (-10°C) (optional)



Real time data acquisition, real-time monitoring, support remote operation and upgrade (optional)

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)	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
Roundtrip efficiency	>98%	>98%	>98%	>98%
Rated charge/discharge current	50A/50A	100A/100A	150A/150A	200A/200A
Max. charge/discharge current	100A/100A	180A/180A	200A/200A	200A/200A
Communication interface	CAN 2.0/RS485			
Scalability	Max. 16 in parallel, Max. 80 kWh			

Operating conditions

Installation location	Indoor
Operating temperature	Discharging:-4°F to 122°F (-20°C to 50°C), Charging:32°F to 122°F (0°C to 50°C)
Dimensions (W*H*D, mm)	482*135*433(Single battery pack)
Weight	45kg/90kg/135kg/180kg
Enclosure protection rating	IP20
Warranty	10 years
Certifications	IEC62619/CE/UN38.3

* DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.

* Charge/discharge derating occurs when the operating temperature from -10°C to 5°C.



MonaWall-SE5

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



Flexible application

- Optimized for wall-mounted installation



Easy to install

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



Excellent performance

- 100% DOD
- Operate at -10°C without any limitation and attenuation



Battery APP

- Real time monitoring
- Remote maintenance and upgrades

MonaWall-SE5

Model	MonaWall-SE5
Nominal energy	5kWh
Usable energy (100%DOD)	5kWh
Rated voltage	51.2V
Charge/discharge cut off voltage	44.8V~55.2V
Roundtrip efficiency	> 98%
Rated charge/discharge current	50A/50A
Max. charge/discharge current	100A/100A
Communication interface	CAN 2.0
Scalability	Max. 16 in parallel, Max. 80 kWh

Operating conditions	
Installation location	Outdoor or indoor
Operating temperature	Discharging:-4°F to 122°F (-20°C to 50°C), Charging:14°F to 122°F (-10°C to 50°C)
Humidity	10% to 95%, non-condensation
Dimensions (W*H*D, mm)	544*524*162
Weight	55kg
Enclosure protection rating	IP65
Altitude	< 4000m
Cooling	Natural convection
Warranty	10 years*
Certifications	IEC62619/CE/UN38.3
* DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.	
* Charge/discharge derating occurs when the operating temperature from -10°C to 5°C.	

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
- Operate at -10°C without any limitation and attenuation (optional)



Remote Data Access&Control

- Real time monitoring
- Remote maintenance and upgrades

SunESS

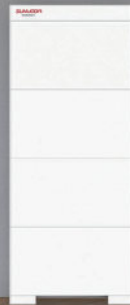
Model	SunESS-5	SunESS-10	SunESS-15	SunESS-20
Nominal energy	5kWh	10kWh	15kWh	20kWh
Usable energy (100% DOD)	5kWh	10kWh	15kWh	20kWh
Max. charge/discharge current	100A/100A	180A/180A	200A/200A	200A/200A
Rated voltage	51.2V			
Communication interface	CAN 2.0/RS485			
DC disconnect	Circuit breaker, 250A, 80V rating			
Roundtrip efficiency	> 98%			
Scalability	Max. 3 in parallel, Max. 60kWh			

Operating conditions	
Installation location	Outdoor or indoor
Operating temperature	Discharging:-4°F to 122°F (-20°C to 50°C), Charging:14°F to 122°F (-10°C to 50°C)
Dimensions (W*H*D, mm)	573*(597/912/1227/1542)*189
Weight	65kg, 115kg, 165kg, 215kg
Enclosure protection rating	IP65
Altitude	< 2000m
Cooling	Natural convection
Warranty	10 years*
Certifications	IEC62619/CE/CEI 0-21/UL1973/FCC/UL9540/UL9540A/UN38.3
* DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.	
* Charge/discharge derating occurs when the operating temperature from -10°C to 5°C.	



SunESS L2

Sunwoda SunESS L2.0 series provide the most safety & reliable energy storage solutions to customer worldwide.



Flexible capacity options

- Stackable module design, easily extend



Easy to install

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



Excellent performance

- 100% DOD
- Operate at -10°C without any limitation and attenuation



Remote Data Access&Control

- Real time monitoring
- Remote maintenance and upgrades

SunESS L2

Model	SunESS-5L2	SunESS-10L2	SunESS-15L2	SunESS-20L2
Nominal energy	5kWh	10kWh	15kWh	20kWh
Usable energy (100% DOD)	5kWh	10kWh	15kWh	20kWh
Max. charge/discharge current	100A/100A	180A/180A	200A/200A	200A/200A
Rated voltage	51.2V			
Communication interface	CAN 2.0/RS485			
DC disconnect	Circuit breaker, 250A, 80V rating			
Roundtrip efficiency	> 98%			

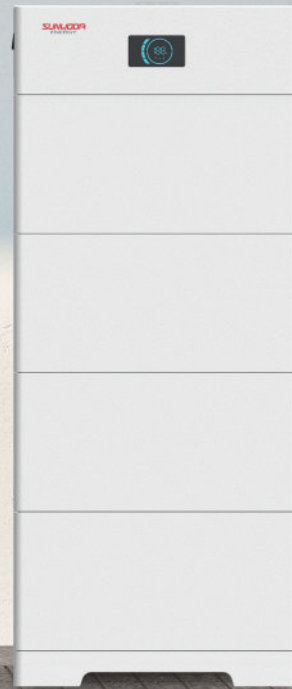
Operating conditions	
Installation location	Outdoor or indoor
Operating temperature	Discharging:-4°F to 122°F (-20°C to 50°C), Charging:14°F to 122°F (-10°C to 50°C)
Dimensions (W*H*D, mm)	573*(597/912/1227/1542)*189
Weight	65kg, 115kg, 165kg, 215kg
Enclosure protection rating	IP65
Altitude	< 4000m
Cooling	Natural convection
Warranty	10 years*
Certifications	IEC62619/CE/UN38.3
* DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.	
* Charge/discharge derating occurs when the operating temperature from -10°C to 5°C.	



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), mixed use of old and new, upgrade at any time



Compatible with market-leading hybrid inverter (≥ 10 brands)



Safe and long-life LiFePO₄ (LFP) technology (Sunwoda Inside)



Optimized for both grid-tied and off grid application

SunESS - H

Model	SunESS 5H	SunESS 10H	SunESS 15H	SunESS 20H
Nominal energy	5kWh	10kWh	15kWh	20kWh
Usable energy (90% DOD)	4.5kWh	9kWh	13.5kWh	18kWh
Rated voltage	400V	400V	400V	400V
Charge/discharge cut off voltage	350V~450V	350V~450V	350V~450V	350V~450V
Rated charge/discharge power	2.5kW	5kW	7.5kW	10kW
Communication interface	CAN 2.0/RS485/WiFi/LAN			
DC disconnect	Circuit breaker, 50A, 1000V rating			
Scalability	Max. 3 in parallel, Max. 60 kWh			

Operating conditions	
Installation location	Outdoor or indoor
Operating temperature	Discharging:-4°F to 122°F (-20°C to 50°C), Charging:14°F to 122°F (-10°C to 50°C)
Humidity	10% to 95%, non-condensation
Dimensions (W*H*D, mm)	653*(597/912/1227/1542)*189
Weight	67kg/119kg/171kg/223kg
Enclosure protection rating	IP65
Altitude	< 4000m
Cooling	Air cooling
Warranty	10 years*
Certifications	IEC62619/CE/UN38.3/MDE 2510-50/FCC/UL1973
* DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.	
* Charge/discharge derating occurs when the operating temperature from -10°C to 5°C.	



Coming Soon!

SunESS H2

It is composed of battery module A with control function, battery box B without control function, and the base in three parts.



High voltage (~400V) enabled by built-in DC-DC



Flexible capacity configuration (5–60kWh)
mixe the using of old and new battery packs



Battery A built-in control module for more easy installation
wall mounted/floor installation



Optimized for both grid-tied and off grid application



Real-time monitoring, remote maintenance and upgrades

SunESS - H2

Model	SunESS-5H2	SunESS-10H2	SunESS-15H2	SunESS-20H2
Nominal energy	5kWh	10kWh	15kWh	20kWh
Usable energy(90% DOD)	4.5kWh	9kWh	13.5kWh	18kWh
Rated voltage	400V	400V	400V	400V
Operating voltage range	350V~450V	350V~450V	350V~450V	350V~450V
Rated output power	2.5kW	5kW	7.5kW	10kW
Peak output power	4.2kW/10s	8.4kW/10s	12.6kW/10s	16.8kW/10s
Communication interface	CAN/RS485			

Operating conditions				
Operating temperature	Discharging:-4°F to 122°F (-20°C to 50°C), Charging:14°F to 122°F (-10°C to 50°C)			
Dimensions (W*H*D, mm)	653*594*189mm	653*909*189mm	653*1224*189mm	653*1539*189mm
Weight	65kg	117kg	169kg	221kg
Enclosure protection rating	IP65			
Warranty	10 years*			
Certifications	IEC62619/CE/UN38.3/VDE2510-50			
* DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.				
* Charge/discharge derating occurs when the operating temperature from -10°C to 5°C.				



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 (AFCI)
- 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



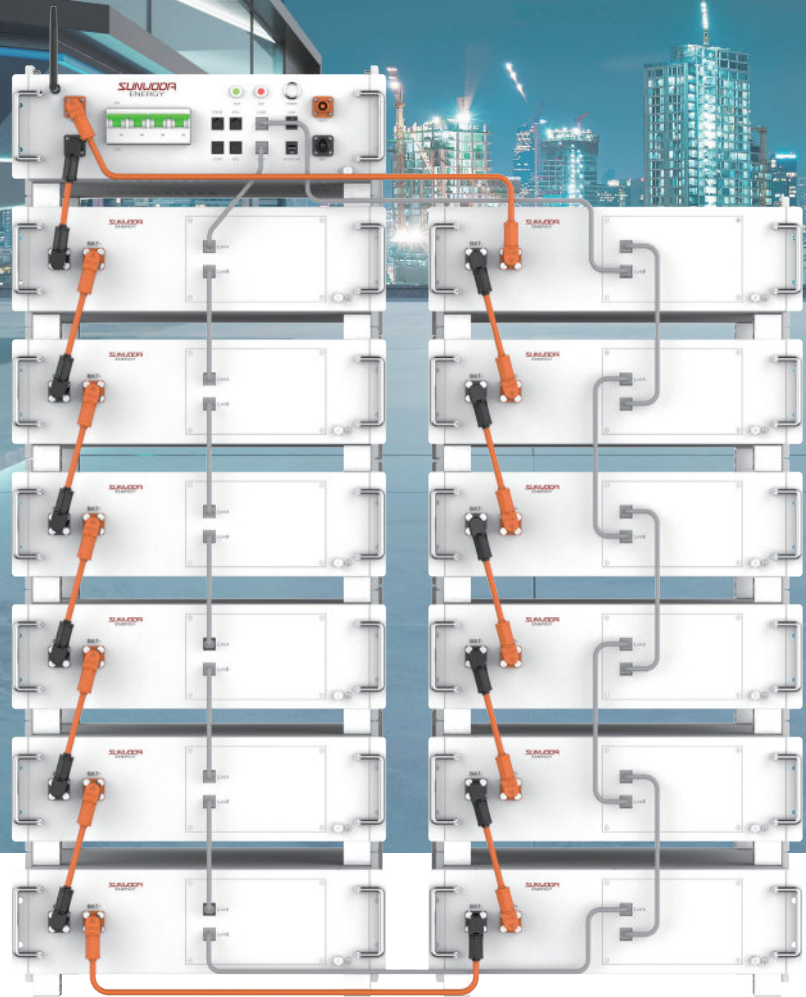
Support diesel generator+ heat Pump (optional)

Battery performance parameters						
Battery Type	LiFePO4					
Battery capacity	10kWh	15kWh	20kWh	20kWh	25kWh	30kWh
Usable Capacity	9kWh	13.5kWh	18kWh	18kWh	22.5kWh	27kWh
Battery module voltage range	350~450V					
Max. charge and discharge power	5kW	7.5kW	8kW	10kW	12kW	15kW
General parameters						
Dimensions (W/H/D) mm	650x1190x250	650x1505x250	650x1820x250	650x1820x250	650x1505x250 650x910x190	650x1505x250 650x1225x190
Operating temperature	Discharging:-4°F to 122°F (-20°C to 50°C), Charging:14°F to 122°F (-10°C to 50°C)					
Relative humidity	10%~95%					
Altitude	<4000m(>3000m derating)					
Cooling method	Air cooling					
Ingress protection	IP65					
Noise	<47dB					
Installation method	Stacked/Leaning against the wall					
Number of battery modules	2	3	4	4	3+2	3+3
Rated battery capacity	10kWh	15kWh	20kWh	20kWh	25kWh	30kWh
Max. charge and discharge power	5kW	7.5kW	10kW	10kW	12.5kW	15kW
Peak charge and discharge power (10s)	7kW	10.5kW	14kW	14kW	17.5kW	21kW
Total weight	150kg	202kg	254kg	254kg	202kg+119kg	202kg+171kg
Accreditation	EN 62109-1/EN 62109-2/EN 62477-1.VDE4105/VDE 0124/EN 61000-6-1/EN61000-6-3/EN 50549-1/NC-RfG:2016/EIFS:2018					

SunESS Power All-in-One

PV Input Parameters	SW5KH3UT	SW6KH3UT	SW8KH3UT	SW10KH3UT	SW12KH3UT	SW15KH3UT
Max. input power (W)	8000	9000	12000	15000	22500	22500
Max. input voltage (V)	1000					
MPPT voltage range (V)	180–850					
Start-up voltage (V)	180V					
Max. input current per MPPT (A)	A: 15	A: 15	A: 15 / B: 30	A: 15 / B: 30	A: 15 / B: 30	A: 15 / B: 30
Max. short-circuit current per MPPT (A)	A: 19	A: 19	A: 19 / B: 38	A: 19 / B: 38	A: 19 / B: 38	A: 19 / B: 38
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 (kwh)	5–40					
Rated battery voltage (V)	400					
Battery voltage range (V)	350–450					
Max. continuous charging current (A)	23			46		
Max. continuous discharge current (A)	23			46		
Max. discharge power (W)	5000	6000	8000	10000	12000	15000
Max. charging power (W)	5000	6000	8000	10000	12000	15000
Output parameters(On-grid)						
Rated output power (W)	5000	6000	8000	10000	12000	15000
Max. output apparent power (VA)	5500	6600	8800	11000	13200	16500
Max. input apparent power (VA)	8000	9000	12000	15000	18000	22500
Rated output voltage (V)	230/400 3W/N/PE					
Rated output frequency (Hz)	50					
Max. output current (A)	8.4	10	13.4	16.7	20	25
Max. input current (A)	12.2	13.7	18.2	22.8	27.4	34.2
Power factor	0.8 leading to 0.8 lagging					
THDi	<3%					
Output parameters(Off-grid)						
Off-grid rated apparent power (VA)	5000	6000	8000	10000	12000	15000
Max. output apparent power (VA)	5500	6600	8800	11000	13200	16500
Max. output current (A)	7.6	10	13.4	16.7	20	25
Rated output voltage (V)	230/400 3W/N/PE					
Rated output frequency (Hz)	50					
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					
AFCI(Arc Fault Circuit Interrupter) Protection	Optional					
Dry contact remote scheduling	Yes					
DC Surge Protection	Type II	Type II	Type II	Type II	Type II	Type II
AC surge protection	Type II	Type II	Type II	Type II	Type II	Type II
Basic parameters						
Operating temperature range (°C)	-30–60 °C					
Relative humidity	0–95%					
Max. operating altitude (m)	<4000m(>3000m derating)					
Cooling method	Air Cooling (≤47dB)					
Display	LED&APP					
BMS communication method	CAN					
Meter communication method	RS485					
Monitoring method	4G/Wifi					
Weight (kg)	41					
Dimensions (W/H/D)mm	650×480×250					
Topology	Transformerless					
Degree of protection	IP65					
Model classification	All in One Unit					
Installation method	Stacked/Stacked in one piece					

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
Number of battery packs	5	6	7	8	9	10	11	12
Rated voltage	256V	307.2V	358.4V	409.6V	460.8V	512V	563.2V	614.4V
Voltage range	224~284V	268.8~340.8V	313.6~397.6V	358.4~454.4V	403.2~511.2V	448~568V	492.8~624.8V	537.6~681.6V
Rated energy	25kWh	30kWh	35kWh	40kWh	45kWh	50kWh	55kWh	60kWh
Usable energy (90%DOD)	22.5kWh	27kWh	31.5kWh	36kWh	40.5kWh	45kWh	49.5kWh	54kWh
Max. charging/ discharging current	100A/100A	100A/100A	100A/100A	100A/100A	100A/100A	100A/100A	100A/100A	100A/100A
Weight	248kg	294kg	340kg	386kg	432kg	478kg	524kg	570kg
Dimension (W*D*H)	440*410*1026	440*410*1197	1080*410*684	1080*410*855	1080*410*855	1080*410*1026	1080*410*1026	1080*410*1197
Cycle life	6000times (25°C, 0.5C/0.5C, 90%DOD, EOL70%)							
Communication	CAN/RS485/WiFi/ETH							
Expansion	Support in parallel up to 3 clusters							
Enclosure protection rating	IP20							
Cooling	Natural cooling							
Ambient temperature	Charge: 0-50°C Discharge: -20-55°C							
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							
Module Parameter								
Module Model	B051100S02							
Module Rated voltage	51.2V							
Module Energy	5kWh							
Module Dimension (W*D*H)	443*410*135mm							
Module Weight	45kg							
Warranty	5 years*							
* DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.								
* Charge/discharge derating occurs when the operating temperature from -10°C to 5°C.								

* According to the market-general inverter selection, the maximum supported capacity of a single set can reach 70kWh.

Oasis Rack



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 Rack

System Model	CIESS25-R	CIESS30-R	CIESS35-R	CIESS40-R	CIESS45-R	CIESS50-R	CIESS55-R	CIESS60-R
Number of battery packs	5	6	7	8	9	10	11	12
Rated voltage	256V	307.2V	358.4V	409.6V	460.8V	512V	563.2V	614.4V
Voltage range	224~284V	268.8~340.8V	313.6~397.6V	358.4~454.4V	403.2~511.2V	448~568V	492.8~624.8V	537.6~681.6V
Rated energy	25kWh	30kWh	35kWh	40kWh	45kWh	50kWh	55kWh	60kWh
Usable energy (90%DOD)	22.5kWh	27kWh	31.5kWh	36kWh	40.5kWh	45kWh	49.5kWh	54kWh
Max. charging/ discharging current	100A/100A	100A/100A	100A/100A	100A/100A	100A/100A	100A/100A	100A/100A	100A/100A
Weight	311kg	356kg	401kg	446kg	515kg	560kg	605kg	650kg
Dimension (W*D*H)	605*588*1470mm				605*588*2070mm			
Cycle life	6000times (25°C, 0.5C/0.5C, 90%DOD, EOL70%)							
Communication	CAN/RS485/WiFi/ETH							
Expansion	Support in parallel up to 3 clusters							
Enclosure protection rating	IP20							
Cooling	Natural cooling							
Ambient temperature	Charge: 0-50°C Discharge: -20-55°C							
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							
Module Parameter								
Module Model	B051100S02							
Module Rated voltage	51.2V							
Module Energy	5kWh							
Module Dimension (W*D*H)	443*410*135mm							
Module Weight	45kg							
Warranty	5 years*							
* DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.								
* Charge/discharge derating occurs when the operating temperature from -10°C to 5°C.								

* According to the market-general inverter selection, the maximum supported capacity of a single set can reach 70kWh.

Oasis 60



Plug-and-Play Installation (Pre-Wired), Convenient Expansion from 60kWh to 180kWh; IP55 Rated.



An All-in-One Outdoor Battery with Air Cooling for Ultimate Convenience.



Equipped with Fire Suppression System, Heat and Smoke Sensors, and Emergency Button for Enhanced Safety and Protection.



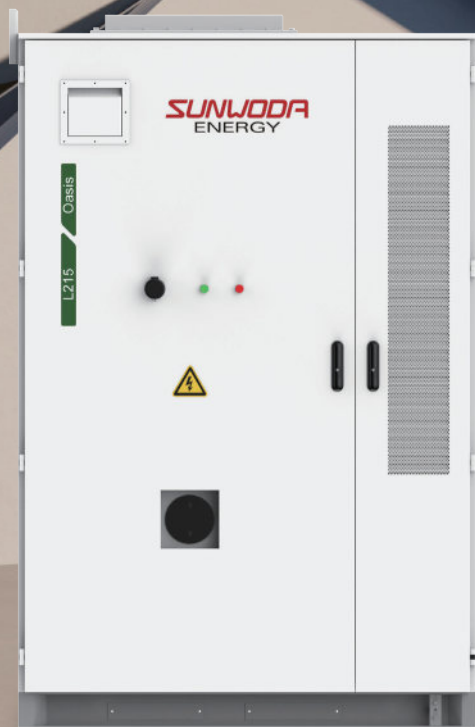
Compatibility with Solis, Deye, and Solinteg inverters offers unparalleled flexibility, empowering you to tailor your energy solution.

Oasis 60

Model Type	CIESS 60
System Parameters	
Battery number	12pcs
Rated voltage	614.4V
Voltage range	537.6~691.2V
Max. charge current	100A
Max. discharge current	100A
Rated energy	60kWh
Weight	880kg
Dimensions	715*750*2140mm (L * W * H)
Expansion	Supports up to 3 battery cabinets in parallel
Protection level	IP55
Temperature control method	air-conditioning
Charging ambient temperature	0~50°C
Discharging ambient temperature	-20~55°C
Recommended storage temperature	20~30°C
Working humidity	10%~95%RH (without condensation)
Communication	CAN/RS485/Wifi
Warranty	5 years*
Max. working altitude	2000m
Cycle life	6000times (25°C, 0.5C/0.5C, 90%DOD)
Basic protection functions	Charge overvoltage, discharge under voltage, overcurrent, over temperature, short circuit protection, etc.
Accreditation	IEC62619/CE/UN38.3
* DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.	
* Charge/discharge derating occurs when the operating temperature from -10°C to 5°C.	



Oasis L215



Support maximum continuous 1 C charge / discharge rate.



Ultimate safety, five levels of safety 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 L215

Single Cluster Solution	
Model Type	Oasis L215
Rated energy	215kWh
No.of modules	5
Rated voltage	768V
Voltage range	672-864V
Rated C-rate	0.5CP
Max. C-rate	1CP
Working temperature	-30°C ~55°C
Storage temperature	-40°C ~60°C
Working relative humidity	0~100% (no condensation)
Altitude	2000m
Cooling method	Liquid cooling (water and glycol mix)
Fire suppression system	Cluster level aerosol agent fire suppression+combustible gas detection and ventilation linkage+deflagration relief panel
Auxiliary power supply	220VAC/50Hz; 110VAC/60Hz
Communication interface	CAN/RS485/Ethernet
Enclosure protection rating	IP55
Dimensions(W*D*H)	1570mm*1350mm*2380mm
Weight	2385kg
Accreditation	UN38.3/IEC62619/IEC 61000-6-2/IEC61000-6-4/GB36276



Oasis L344

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



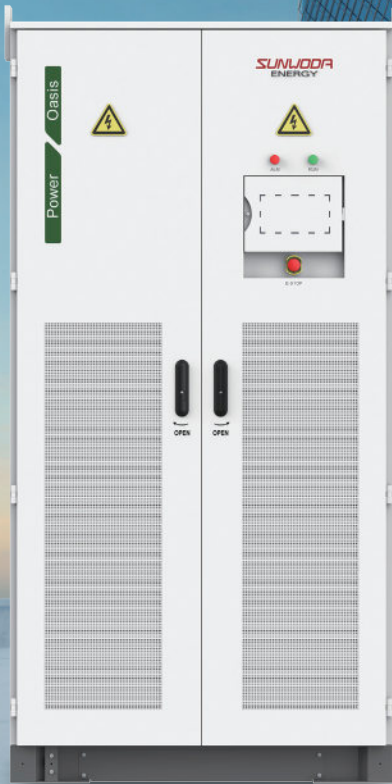
High energy density

Oasis L344

Single Cluster Solution	
Model Type	Oasis L344
Rated energy	344kWh
No.of modules	8
Rated voltage	1228.8V
Voltage range	1075.2V~1382.4V
Rated C-rate	0.5CP
Max. C-rate	1CP
Working temperature	-30°C~55°C
Storage temperature	-40°C~60°C
Working relative humidity	0~100% (no condensation)
Altitude	2000m
Cooling method	Liquid cooling (water and glycol mix)
Fire suppression system	Cluster level aerosol agent fire suppression+combustible gas detection and ventilation linkage+deflagration relief panel
Auxiliary power supply	220VAC/50Hz; 110VAC/60Hz
Communication interface	CAN/RS485/Ethernet
Enclosure protection rating	IP55
Dimensions(W*D*H)	1570mm*1350mm*2380mm
Weight	3330kg
Accreditation	UN38.3/IEC62619/IEC 61000-6-2/IEC61000-6-4/GB36276



Oasis Power



Modularized design, support optional PV 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.



Integrated EMS function, support various EMS energy management strategies, can participate in the power market auxiliary services.

Oasis Power

Product Model	OSP-100K	OSP-200K	OSP-300K	OSP-400K
Battery Side Parameter				
Operating Voltage Range (V)	650~950V			
Full Power Voltage Range(V)	715~950V			
Connected Number of Battery Cluster Branches	1	1/2	3	2/4
PV Side Parameter				
Max. PV Input Power (kW)	100/150	200	/	/
Operating Voltage Range (V)	180~650V		/	/
NO. of MPPT Tracker / PV Strings	2/2; 3/3	4/4	/	/
Max. Current Per MPPT (A)	100		/	/
Grid Side Parameter (On Grid)				
Max. Output Power (kVA)	110	220	330	440
Normal Output Power (kW)	100	200	300	400
Normal Output Voltage(V)	230/400			
Normal Output Current(A)	144	144*2	144*3	144*4
Max. Output Current (A)	159	159*2	159*3	159*4
Nominal frequency(Hz)	50/60(±5Hz)			
THDi	≤3%			
Power Factor	-1(Leading)~1(Laging)			
Wiring Method	3W+N+PE			
Grid Side Parameter(Off Grid)				
Normal Power (kW)	100	200	/	/
Normal Output Voltage (V)	230/400		/	/
Normal Output Current (A)	144	144*2	/	/
Nominal Frequency (Hz)	50/60 (±5Hz)		/	/
THDu	<3% (Linear load)		/	/
System Parameter				
Temperature	-25~+55°C (Derating above 45 °C)			
Humidity	5~95%RH,Non-condensing			
Altitude	2000m			
Cooling Mode	Intelligent Air-Cooling			
Protection Grade	IP54			
Size(W *D* H)	750*1200*2380mm/1200*1200*2380mm		1200*1200*2380mm	
Weight	< 1000kg			
Accreditation	EN50549-1/EN 62477-1/EN 61000-6-2/EN 61000-6-4/GB T 34120-2017 (And Europe, South Africa, Southeast Asia and other grid-connected certification)			
* The functional configurations of the above products can be selected according to different needs.				









Approved Compatibility List of Inverter Brands

LV Residential Energy Storage Solution

Inverter brand	Inverter model	SUNWODA ENERGY BATTERY SERIES				
		SunESS Series		Atrix Series		
		SunESS L2-5/10/15/20 	Atrix-5/10/15/20 	MonaWall 5 	Atrix basic 	Atrix Smart 
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-48ES-5G RHI-(3-5)K-48ES S6-EH1P(3-6)K-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	✓ (CEI 0-21 listing)	✓	✓	✓	✓
	SUN-3.6/5/6/7.6/8K-SG01LP1-EU SUN-12/14/16K-SG01LP1-EU	✓	✓	✓	✓	✓
	GW3648D/5048D-ES	✓	✓	✓	✓	✓
Goodwe 	EM:GW3048/5048-EM LV	✓	✓	✓	✓	✓
	S-BP:GW3600S/5000S-BP	✓	✓	✓	✓	✓
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	✓	✓	✓	✓	✓
Luxpower LU POWER 	LXP-LB-US 12K	✓ (UL9540 listing)	✓	✓	✓	✓
	LXP3/3.6/4.6/6K, 1phase	✓ (CEI 0-21 listing)	✓ (CEI 0-21 listing)	✓ (CEI 0-21 listing)	✓	✓
	SNA3000/4000/5000/6000	✓	✓	✓	✓	✓
Megarevo 	R3K/3K6/4K/4K6/5K/6K1	✓	✓	✓	✓	✓
	R5K/6K/7K6/8K/10KLNA	✓ (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 InfiniSolar 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	✓	✓	✓	✓	✓







*The communication protocols of SunESS Series /Atrix Series/MonaWall 5 Series/Atrix basic Series are the same.

HV Residential Energy Storage Solution

Inverter brand	Inverter model	SUNWODA ENERGY BATTERY SERIES	
		SunESS-5/10/15/20H2 	
Solis 	S6-EH3P(5-10)K-H-EU	✓ (CEI 0-21 listing)	
	S6-EH3P(12-20)K-H	✓	
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	✓	

* 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/CIESS-R-S Series 
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)
SOLINTEG 	MHT-10K/12K/15K/20K-40 MHT-25K/30K/36K/40K/50K-100	✓	✓
Solis 	S6-EH3P(29.9-50)K-H	✓	✓
Afore 	AF(3K-30K)TH	✓	✓

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