

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



Sunwoda Energy Technology Co., Ltd.

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Information may be modified without notice.



## **CONTENTS**

02 - Company Profile

06 - Residential ESS

32 - Optimized C&l Solution

50 - 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!**



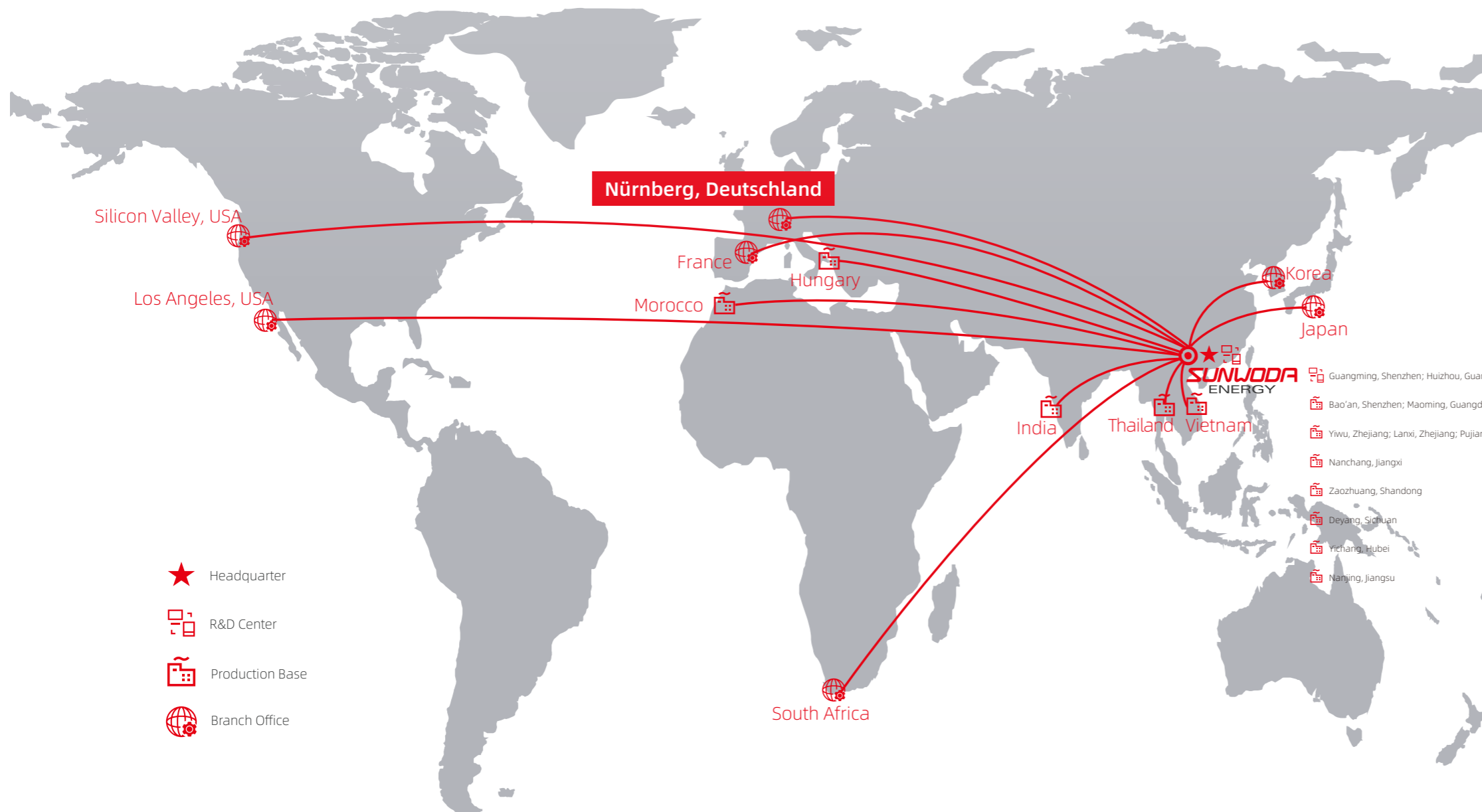
**TOP 10**  
Top 10 global battery companies



**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

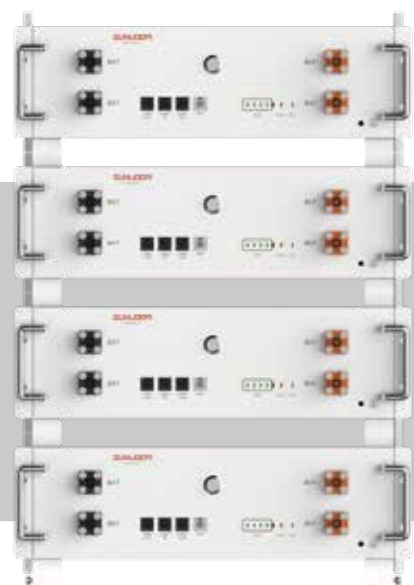
# Atrix SE

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) <sup>1</sup>	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 <sup>2</sup>	50A/80A	100A/160A	150A/240A	200A/320A
Max. charge/discharge current <sup>2</sup>	100A/100A	180A/180A	240A/240A	320A/320A
Peak Discharge Current <sup>2</sup>	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)	440*135*410mm/PACK
Weight	45kg/90kg/135kg/180kg
Ingress Protection Rating	IP20
Altitude	<4000m
Cooling	Natural convection
Warranty	10 years <sup>3</sup>
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.



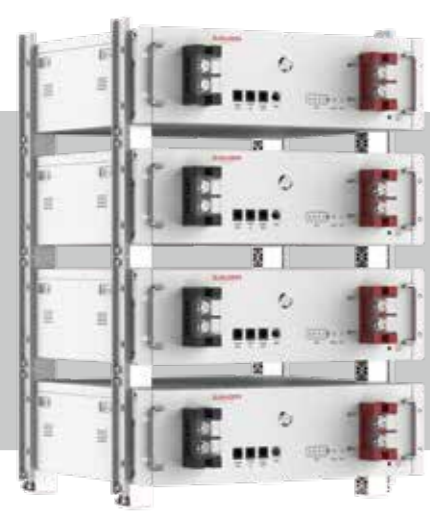
\*Restricted Sales Region

## 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) <sup>1</sup>	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 <sup>2</sup>	50A/80A	100A/160A	150A/240A	200A/320A
Max. charge/discharge current <sup>2</sup>	100A/100A	180A/180A	240A/240A	320A/320A
Peak Discharge Current <sup>2</sup>	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)	440*135*410mm/PACK
Weight	45kg/90kg/135kg/180kg
Ingress Protection Rating	IP20
Altitude	<4000m
Cooling	Natural convection
Warranty	10 years <sup>3</sup>
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) <sup>1</sup>	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 <sup>2</sup>	50A/80A	100A/160A	150A/240A	200A/320A
Max. charge/discharge current <sup>2</sup>	100A/100A	180A/180A	240A/240A	320A/320A
Peak Discharge Current <sup>2</sup>	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)	501*142*452mm/PACK
Weight	45kg/90kg/135kg/180kg
Ingress Protection Rating	IP20
Altitude	<4000m
Cooling	Natural convection
Warranty	10 years <sup>3</sup>
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) <sup>1</sup>	16kWh	
Rated voltage	51.2V	
Charge/discharge cut off voltage	44.8V~57.6V	
Rated charge/discharge current <sup>2</sup>	157A/157A	
Max. charge/discharge current <sup>2</sup>	220A/220A	
Peak output current <sup>2</sup>	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 (W*H*D)	500*970*265mm	
Weight	130kg	
Ingress Protection Rating	IP65	
Altitude	< 4000m	
Cooling	Natural convection	
Warranty	10 years <sup>3</sup>	
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) <sup>1</sup>	5kWh
Rated voltage	51.2V
Charge/discharge cut off voltage	44.8V~55.2V
Rated charge/discharge current <sup>2</sup>	50A/80A
Max. charge/discharge current <sup>2</sup>	100A/100A
Peak Discharge Current <sup>2</sup>	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)	544*533*162mm
Weight	53kg
Ingress Protection Rating	IP65
Altitude	< 4000m
Cooling	Natural convection
Warranty	10 years <sup>3</sup>
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) <sup>1</sup>	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 <sup>2</sup>	50A/80A	100A/160A	150A/200A	200A/200A
Max. charge/discharge current <sup>2</sup>	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)	573*(597/912/1227/1542)*189mm
Weight	65kg/115kg/165kg/215kg
Ingress Protection Rating	IP65
Altitude	< 4000m
Cooling	Natural convection
Warranty	10 years <sup>3</sup>
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.





# Sun Power

Single-phase low-voltage Hybrid inverter

## Sun Power single-phase low-voltage Hybrid inverter

Model	SW3KLDT	SW3.6KLDT	SW3.68KLDT	SW4.6KLDT	SW5KLDT	SW6KLDT
<b>Input (PV)</b>						
Max. PV Usable Power				10000W		
Max. PV Voltage				550V		
Start-up Voltage				90V		
MPPT Operating Voltage Range				70V-540V		
Max. Input Current				18A/18A		
Max. Short Circuit Current				25A/25A		
No. of MPPT				2		
String per MPPT				1/1		
<b>Input/Output (BAT)</b>						
Nominal Battery Voltage				48V		
Battery Voltage Range				40V-65V		
Max. Charge/Discharge Current	75A/75A	75A/75A	75A/75A	110A/110A	110A/110A	110A/110A
Max. Charge/Discharge Power	4000W/4000W	4000W/4000W	4000W/4000W	5500W/ 5500W	5500W/ 5500W	5500W/ 5500W
<b>Input/Output (Grid)</b>						
Nominal AC Output Power	3000W	3600W	3680W	4600W	5000W	6000W
Max. AC Apparent Power	3300VA	3960VA	3680VA	4600VA	5500VA	6600VA
Max. AC Output Current	15A	18A	16.7A	21A	25A	28.7A
Max. Input Power From Grid	7500W	7500W	7500W	9000W	9000W	9000W
Max. Input Current From Grid	34A	34A	34A	41A	41A	41A
Rated Grid Voltage				220V/230V/240V, L+N+PE		
Grid Voltage Range				150V-300V (Adjustable)		
Rated Grid Frequency				50Hz/60Hz		
AC Frequency Range				45Hz-55Hz/55Hz-65Hz (Adjustable)		
Power Factor				> 0.99@rated power (Adjustable 0.8 LD - 0.8 LG)		
THDI				<3%@Rated Power		
<b>Output (Back up)</b>						
Nominal Output Power	3000W	3600W	3680W	4600W	5000W	6000W
Rated AC Output Current	13.6A/13.0A/12.5A	16.4A/15.7A/15.0A	16.7A/16.0A/15.3A	20.9A/20.0A/19.2A	22.7A/21.7A/20.8A	27.3A/26.1A/25.0A
Peak Output Power (10s)	6000VA	7200VA	7360VA	9200VA	10000VA	10000VA
Nominal Output Voltage				220V/230V/240V, L+N+PE		
Nominal Output Frequency				50Hz/60Hz		
Transfer Time				10ms (Typical)		
THDV				<3%@100% R Load		
<b>Efficiency</b>						
Max. Efficiency (PV to AC)				97.3%		
Eur. Efficiency (PV to AC)				96.8%		
Max. Efficiency (BAT to AC)				94.3%		
<b>Protection</b>						
Protection Category				Class I		
DC Switch				Yes		
Anti-islanding Protection				Yes		
AC Over Current Protection				Yes		
PV/AC Over Voltage Protection				DC Type II, AC Type III		
AC Short Circuit Protection				Yes		
PV Reverse Protection				Yes		
Surge Arrester				DC Type III, AC Type III (Type II Optional)		
Insulation Detection				Yes		
Leakage Current Protection				Yes		
<b>General</b>						
Max. Operation Altitude				4000m (>2000m derating)		
Ingress Protection Rating				IP65		
Operating Temperature Range				-25°C ~60°C (>45°C derating)		
Relative Humidity				0~100%		
Cooling Method	Natural Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Smart Fan Cooling
Mounting				Wall bracket		
Dimensions (W*H*D)				377*452*206mm		
Weight				20Kg		
<b>HMI &amp; COM</b>						
Display				LED		
Communication Interface				RS485/CAN/ Wi-Fi/LAN (optional)		
<b>Certification</b>						
Standard				IEC/EN 62109-1&2, IEC/EN 61000, G98, G99, G100, CEI 0-21		
Warranty				10 Years		



### Excellent

- 18A, Support high power PV panel
- 135A, Max battery charge/discharge current



### Flexibility

- Max. 9 units parallel for on-grid and off-grid operation
- Support Generator/AC coupling



### Reliability

- IP65: Indoor or outdoor installation
- Seamless switching from On-grid to Off-grid state



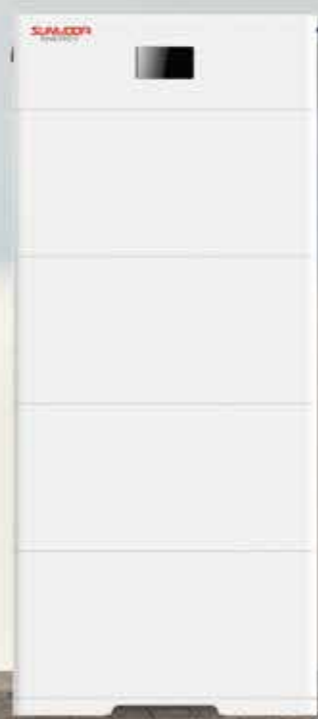
### Intelligent

- Intelligent Management, local & remote monitoring
- Smart loads management

# SunESS H

## Smart Stacked Energy Storage System

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



## SunESS - H






Model	SunESS-5H	SunESS-10H	SunESS-15H	SunESS-20H
Nominal energy	5kWh	10kWh	15kWh	20kWh
Usable energy (90% DOD) <sup>1</sup>	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 <sup>2</sup>	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 <sup>3</sup>	Max. 3 in parallel, Max. 60 kWh			

### Operating conditions

Installation location	Outdoor or indoor
Ambient Temperature <sup>4</sup>	-20°C to 50°C
Humidity	5% to 95% (no condensation)
Dimensions (W*H*D)	653*(553/868/1183/1498)*189mm
Weight	65kg/117kg/169kg/221kg
Ingress Protection Rating	IP65
Altitude	< 4000m
Cooling	Natural convection
Noise emission	< 29dB
Warranty	10 year <sup>5</sup>
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.








-  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 Pro

**NEW**

-  High voltage (~530V) enabled by built-in DC-DC Optimizer.
-  Flexible capacity configuration (10-120kWh).
-  Module level energy optimization, mixed use of old and new.
-  Each battery module incorporates built-in Firefighting Aerosol for comprehensive safety coverage.
-  Safe and long-life LiFePO4 (LFP) technology, with 10000 cycles.

## SunESS H Pro

Model	SunESS-10HP	SunESS-20HP	SunESS-30HP	SunESS-40HP	SunESS-50HP	SunESS-60HP
Nominal energy	10kWh	20kWh	30kWh	40kWh	50kWh	60kWh
Usable energy <sup>1</sup>	9.65kWh	19.3kWh	28.95kWh	38.6kWh	48.25kWh	57.9kWh
Rated voltage	530V	530V	530V	530V	530V	530V
Operating voltage range	450V~650V	450V~650V	450V~650V	450V~650V	450V~650V	450V~650V
Rated charge/discharge power <sup>2</sup>	5.6kW	11.2kW	16.8kW	22.4kW	28kW	33.6kW
Peak output power	8.4kW/20S	16.8kW/20S	25.2kW/20S	33.6kW/20S	42kW/20S	50.4kW/20S
Communication interface	CAN/RS485					
DC disconnect	Circuit breaker,80 A, 1100V rating					
Scalability	Max. 2 in parallel, Max. 120 kWh					

Operating conditions	
Installation location	Outdoor or indoor
Ambient Temperature	- 20°C to 55°C
Humidity	5% to 95%, non-condensation
Dimensions (W*H*D)	740*(440/730/1020/1310/1600/1890)*370mm
Weight	98kg/186kg/274kg/362kg/450kg/538kg
Ingress Protection Rating	IP66
Altitude	<4000m
Firefighting Aerosol	Built-in
Cooling	Natural convection
Noise emission	< 30dB
Warranty	10 years <sup>3</sup>
Cell Cycle life	10000(25°C,0.5C/0.5C, 100%DOD, EOL60%)
Certificates	CE/IEC62619/IEC60730/UN38.3/VDE2510-50

<sup>1</sup>.Test conditions: 100% DOD, 0.2C charge & discharge at 25°C.  
<sup>2</sup>.The power is affected by temperature and SOC.  
<sup>3</sup>.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	1	2	3	4	5	6	7	8
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 Rating	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/IEF5:2018/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.

# SunESS Power Pro+ All-in-One



## All-in-One

- Integrated Hybrid Inverter, Battery and EMS form a powerful energy system
- Integrated stackable design for easy installation
- Flexible Battery Expansion (20-120kWh)



## Intelligent

- Cloud operation and maintenance
- Support WiFi/LAN/Bluetooth, Modbus RTU/Modbus TCP
- Support the connection of Smart loads, Generator, EV charger and Heat pump



## 200%

- 200% oversized PV power



## 100%

- 100% three phase unbalanced load



## 21A

- Max. 21A input current to better suited for high power panel



## 160A

- Max. continuous charging/discharging current



## Safety

- Type II AC & DC surge protection
- Optional rapid shut-down (RSD)



## Flexibility

- IP66, Rated for indoor and outdoor use
- Half-wave load support, Stable operation

System Parameters	2	3	4	5	20~50kW									
Norminal Output Power														
Number of battery module	2	3	4	5	6	7	8	9	10	11	12			
Battery nominal energy	20kWh	30kWh	40kWh	50kWh	60kWh	70kWh	80kWh	90kWh	100kWh	110kWh	120kWh			
Battery rated charge/discharge power	11.2kW	16.8kW	22.4kW	28kW	33.6kW	39.2kW	44.8kW	50.4kW	56kW	61.6kW	67.2kW			
Dimensions (W/H/D) mm	720*1233*370	720*1523*370	720*1813*370	720*2103*370	720*1233*370	720*1523*370	720*1523*370	720*1813*370	720*1813*370	720*2103*370	720*1813*370	720*1310*370	720*1310*370	720*1310*370
Total weight	260kg	348kg	436kg	524kg	260+362kg	348+362kg	348+450kg	436+450kg	436+538kg	524+538kg	436+362+362kg			
Operating temperature	-20°C to 55°C													
Relative humidity	5% to 95%, non-condensation													
Altitude	<4000m(>2000m derating)													
Cooling method	Air cooling													
Ingress Protection Rating	IP66													

# SunESS Power Pro+ All-in-One

Battery Module							
Nominal energy	10kWh						
Rated voltage	530V						
Voltage range	450~650V						
Rated charge/discharge power	5.6kW						
Weight	88kg						
Dimensions (W/H/D)	720*290*370mm						
Inverter Module							
	SW-20KH3-UT	SW-25KH3-UT	SW-29.9KH3-UT	SW-30KH3-UT	SW-35KH3-UT	SW-40KH3-UT	SW-50KH3-UT
	SW-20KH3-DT	SW-25KH3-DT	SW-29.9KH3-DT	SW-30KH3-DT	SW-35KH3-DT	SW-40KH3-DT	SW-50KH3-DT
PV Input Parameters							
Max. input power	40000W	50000W	60000W	60000W	70000W	80000W	100000W
Max. input voltage	1100V						
MPPT voltage range	150~980V						
Rated input voltage	600V						
Start-up voltage	150V						
Max. input current per MPPT	42A						
Max. short-circuit current per MPPT	60A						
Number of MPPTs	3	3	4	4	4	4	4
Number of input strings per MPPT	2						
Battery Input Parameters							
Battery voltage range	140~900V						
Max. continuous charging/discharging current	160/160A						
Max. charging/discharging power	20000/20000W	25000/25000W	29900/29900W	30000/30000W	35000/35000W	40000/40000W	50000/50000W
Output parameters(On-grid)							
Rated output power	20000W	25000W	29900W	30000W	35000W	40000W	50000W
Max. output apparent power	20000VA	25000VA	29900VA	30000VA	35000VA	40000VA	50000VA
Max. input apparent power	40000VA	50000VA	59800VA	60000VA	70000VA	80000VA	100000VA
Rated output voltage	220/380V 230/400 3W/N/PE						
Rated output frequency	50Hz						
Max. output current	30.3A	37.9A	45.3A	45.5A	53.0A	60.6A	83.3A
Max. input current	60.6A	75.8A	90.6A	90.9A	106.1A	120A	120A
Power factor	0.8 leading to 0.8 lagging						
THDi	<3%						
Output parameters(Off-grid)							
Off-grid rated apparent power	20000VA	25000VA	29900VA	30000VA	35000VA	40000VA	50000VA
Max. output apparent power	20000VA	25000VA	29900VA	30000VA	35000VA	40000VA	50000VA
Max. output current	30.3A	37.9A	45.3A	45.5A	53.0A	60.6A	83.3A
Peak output current /10s	113.6A	113.6A	113.6A	113.6A	113.6A	113.6A	113.6A
Rated output voltage	220/380V 230/400 3W/N/PE						
Rated output frequency	50Hz						
THDv (@Linear Load)	<3%						
Efficiency							
Max. Efficiency	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%
Euro. Efficiency	97.2%	97.2%	97.2%	97.2%	97.2%	97.2%	97.2%
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						
Surge Protection	DC Type II/AC Type II						
Basic parameters							
Display	LED&APP						
BMS communication method	CAN						
Meter communication method	RS485						
Monitoring method	WIFI/LAN/Bluetooth; Modbus RTU/Modbus TCP						
Topology	Transformerless						
Weight	78kg						
Dimensions (W/H/D)	720/603/370mm						



# SunESS Power Wallbox

**NEW**



## Intelligent and Convenient

- Integrate PV, energy storage, and EV charging into a unified system to optimize energy utilization.
- Remote smart monitoring and control via the app or website, supporting scheduled charging for time-saving efficiency.
- Supports load and energy management, controlling charging power based on household consumption and utilizing surplus PV to charge vehicles.
- RFID card swipe activation mode enables flexible and user-friendly experience design.

## Safe and Reliable

- Integrated 30mA Type A and 6mA DC fault current detection.
- IP65 protection rating, suitable for indoor and outdoor use.
- Multiple Electrical Function Protection.

## SunESS Power Wallbox

Model	SWACW11K400DQ
<b>AC Input and Output</b>	
Rated Power	11kW
Rated Voltage	400V AC
Rated Current	16A
Frequency	50/60 Hz
Power Supply	3P+N+PE
Charge Connector	Type 2 Cable
Cable Length	7m
<b>Interaction and Communication</b>	
LED Indicator	Green / Yellow / Red
RFID Reader	Mifare Classic ISO/IEC 14443-A
Start Mode	Plug to Charge/RFID card/App
Communication	RS485
<b>Safety and Certification</b>	
Residual Current Device (RCD)	30mA Type A + 6mA DC
Over current protection	Supported
Residual current protection	Supported
Ground protection	Supported
Surge protection	Supported
Over / Under voltage protection	Supported
Over / Under frequency protection	Supported
Over temperature protection	Supported
Impact Protection	IK10
Ingress Protection Rating	IP65
Certification	CE, RED
Certification Standard	EN 18031-1; EN IEC 61851-1; EN IEC 61851-21-2; EN IEC 61000-6-1; EN IEC 61000-6-3; EN IEC 62311 EN 300 328; EN 300 330; EN 301 489-1/3/17
<b>General information</b>	
Operation Temperature	-30°C~ + 50°C
Work Humidity	5%~95%
Work Altitude	≤2000m
Dimensions (H*W*D)	365*201*99.5mm
Net Weight	3.2kg
Enclosure	PC
Installation	Wall-mount / Pole-mount (Optional)
Warranty	3 years

# SunESS H StackPlus



### Easy installation

- Cable-free stackable design
- Plug and Play



### Flexible expansion

- Modular design, easy to expand
- Scalable from 4~23 packs per cluster, up to 12 clusters in parallel (48kWh ~ 3.32MWh)



### Module level energy optimization

- Package-level built-in active equalization module
- Support mix of old and new batteries



### Wide environmental adaptability

- Built-in heating module, support low temperature operation
- IP66, superior environmental protection capability



### Safe and reliable

- Built-in fire protection module
- Built-in explosion relief valve



### Fast charge & discharge

- 0.8C (251A) charge & 1C (314A) discharge, support high-load and fast-charge applications/0.8C (251A)



### Long life

- LiFePO4 (LFP) cells, 10000 cycles



### Smart O & M

- Real time monitoring
- Remote maintenance and upgrades

## SunESS H StackPlus

SunESS Stack-12			
Rated Energy	12.05kWh		
Rated Charge/Discharge Current	157A		
Max Charge/Discharge Current	251/314A		
Rated Voltage	38.4V		
Dimensions (W*D*H)	720*420*269mm		
Weight	95kg		
Control Box			
Operating Voltage	134.4~993.6Vd.c		
Max. Current	314A		
Dimensions (W*D*H)	720*420*267.5mm		
Weight	40kg		
Main Cluster			
Number of battery modules	4	5	6
Total weight	447kg	542kg	637kg
Dimensions (W*H*D)	720*1538*420mm	720*1807*420mm	720*2076*420mm

SunESS StackPlus				
Model	SunESS-48/60/72/84/96-HSP	SunESS-100/120/132/144/156-HSP	SunESS-168/180/192/204/216-HSP	SunESS-228/241/253/265/277-HSP
Number of battery packs	4/5/6/7/8	9/10/11/12/13	14/15/16/17/18	19/20/21/22/23
Nominal energy	48.2/60.25/72.3/84.35/96.4kWh	108.45/120.5/132.55/144.6/156.65kWh	168.7/180.75/192.8/204.85/216.9kWh	229.6/241/253.05/265.1/277.15kWh
Rated voltage	153.6/192/230.4/268.8/307.2	345.6/384/422.4/460.8/499.2	537.6/576/614.4/652.8/691.2	638.4/768/806.4/844.8/883.2
Voltage range	134.4~345.6V	302.4~561.6V	470.4~777.6V	638.4~993.6V
Rated charge/discharge rate	0.5C/0.5C			
Max. charge/discharge rate	0.8C/1C			
Cell Cycle life	10000(25°C,0.5C/0.5C, 100%DOD, EOL60%)*			
Communication interface	CAN/RS485/LAN			
Scalability	Max. 12 clusters in parallel			
Fire Protection System	Built-in fire protection module			
Operating conditions				
Ambient Temperature	-4°F to 122°F(-20°C to 55°C)			
Humidity	5% to 95%, non-condensation			
Ingress Protection Rating	IP66			
Altitude	<4000m			
Cooling	Intelligent air cooling			
Noise emission	< 65dB			
Warranty	10 years*			
Certificates	UN38.3/CE/ IEC62619 / IEC60730 / EN18031/IEC63056/ROHS			

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



# 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											
Ingress 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 (W*H*D)	443*135*410mm
Module Weight	43.3kg
Warranty	5 years*

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





# OASIS 60



## OASIS 60

Model Type	CIESS 60
<b>System Parameters</b>	
Battery number	12pcs
Rated voltage	614.4V
Voltage range	537.6~691.2V
Max. C-rate	1C
Rated energy	60kWh
Weight	807kg
Dimensions(W*H*D)	890*2140*715mm
Expansion	Supports up to 6 battery cabinets in parallel
Ingress Protection Rating	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
<b>DC side parameter</b>					
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
<b>System parameter</b>					
Communication mode	CAN, RS485, Ethernet				
Cooling method	Intelligent air cooling				
Installation method	Indoor				
Ingress Protection Rating	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	CISS-120	CISS-160	CISS-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		
Ingress Protection Rating	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 (W*H*D)	1150*2200*1375mm		
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
<b>DC Side</b>	
Cell Type	LFP
Cell Specification	3.2V 314Ah
PACK Capacity	20kWh
Rated Capacity	200kWh
Rated Voltage	640V
<b>AC Side</b>	
Rated Output Power	125kW
THDi	< 3% (Rated Power)
Rated Voltage	400V (300~440)
Rated Frequency	50/60Hz (±5Hz)
Power Factor	-1 (Leading) ~ 1 (Lagging)
<b>System Parameter</b>	
Communication Interface	CAN, RS485, Ethernet
Cooling Mode	Industrial Air-conditioning
Display	Touch Screen, Cloud Platform
Installation Mode	Outdoor
Ingress Protection Rating	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 (W*H*D)	1150*2200*1375mm
Weight	< 2400kg
Certification	UN38.3/IEC 62619/IEC 61000/IEC 62477/VDE4105/41110/G99/EN50549/NTS 631
* For warranty instructions, please refer to the warranty terms.	




# OASIS L241



## OASIS L241

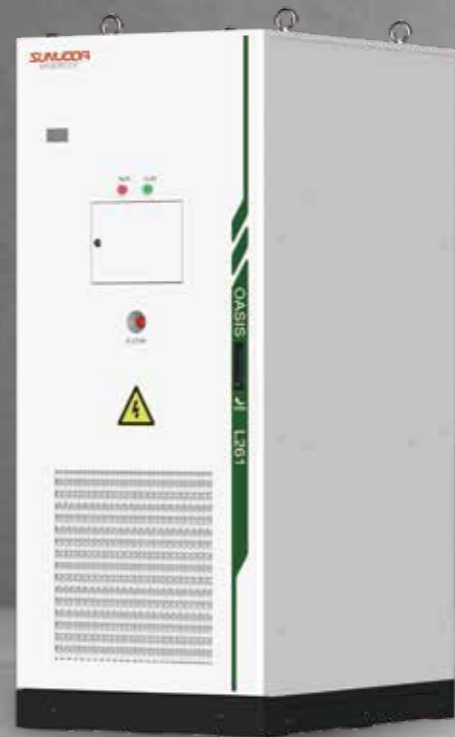
Single Cluster Solution	
Model Type	OASIS L241
Rated Energy	241kWh
Cell Specification	3.2V 314Ah
PACK Capacity	48.2kWh
No.of Modules	5
Rated Voltage	768V
Voltage Range	648~864V
Max. C-rate	0.7C
Ambient Temperature	-30°C~55°C
Ambient Humidity	0~95% (no condensation)
Altitude	2000m
Cooling Method	Liquid 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	LAN/CAN
Ingress Protection Rating	IP55
Cell Cycle Life	9000 times (25°C, 0.5C/0.5C, 90%DOD, EOL70%)*
Dimensions (W*H*D)	1570*2380*1350mm
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	CIESS-261
<b>DC Side</b>	
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
<b>System Parameter</b>	
Communication Interface	CAN/RS485/Ethernet
Cooling Mode	Liquid cooling
Installation Mode	Outdoor
Ingress Protection Rating	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 (W*H*D)	980*2350*1390mm
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
<b>DC Side</b>	
Cell Type	LFP
Cell Specification	3.2V 314Ah
PACK Capacity	52.2kWh
Rated Capacity	261kWh
Rated Voltage	832V
<b>AC side (On-grid)</b>	
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)
<b>AC Side (off-grid, Optional STS Module)</b>	
Rated Output Power	125kW
Wiring Method	3L+N
Rated Output Voltage	400V
Rated Output Frequency	50/60Hz
THDu	<3% (Linear load)
<b>System Parameter</b>	
Communication Interface	CAN/RS485/Ethernet
Cooling Mode	Liquid cooling
Installation Mode	Outdoor
Ingress Protection Rating	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 (W*H*D)	980*2350*1390mm
Weight	< 2400kg
* For warranty instructions, please refer to the warranty terms.	

# OASIS L385

Liquid Cooling Solution  
Outdoor Liquid Cooling Cabinet



-  Easily configurable and scalable
-  Long service life
-  High system safety
-  High energy density

-  Less LCOS within life span
-  Smart management
-  Shorter deployment time

## 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	1036.8~1382.4V
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	LAN/CAN
Ingress Protection Rating	IP55
Cell Cycle Life	9000 times (25°C, 0.5C/0.5C, 90%DOD, EOL70%)*
Dimensions (W*H*D)	1570*2380*1350mm
Weight	3660kg
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
<b>Battery Side Parameter</b>		
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
<b>Grid Side Parameter (On Grid)</b>		
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	
<b>Grid Side Parameter (Off Grid)</b>		
Nominal Power	180kW	/
Nominal Output Voltage	230V/400V	/
Nominal Output Current	260A/130A*2	/
Nominal Frequency	50/60Hz	/
THDu	< 3% (Linear load)	/
<b>System Parameter</b>		
Temperature	-20°C~+55°C (> 45°C derating)	
Humidity	5~95%RH (no condensation)	
Altitude	2000m	
Cooling Mode	Intelligent Air-Cooling	
Ingress Protection Rating	IP54	
Dimensions (W*H*D)	750*2060*1200mm/1200*2380*1200mm	1200*2380*1200mm
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+ Series
<b>SMA</b>	SI 4.4-M SI 6.0-H SI 8.0-H	✓	✓	✓	✓	✓	✓
<b>Victron</b>	MultiPlus-II 48 Series Quattro 48 Series	✓	✓	✓	✓	✓	✓
<b>Solis</b>	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)	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
<b>Deye</b>	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) ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓
<b>Goodwe</b>	GW3648D/5048D-ES EM:GW3048/5048-EM LV S-BP:GW3600S/5000S-BP GW(5-20)K-ET-L-G10	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓
<b>Solplanet</b>	ASW3000/3680/4000/5000/6000H-S2	✓	✓	✓	✓	✓	✓
<b>Afore</b>	AF1/1.5/2/2.5/3/3.6K-SL-1 AF3/3.6/4/4.6/5/5.5/6K-SL	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
<b>invtr</b>	XD3K6/4K/4K6/5K/6KTL	✓	✓	✓	✓	✓	✓
<b>Luxpower</b>	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) ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
<b>Megarevo</b>	R3K/3K6/4K/4K6/5K/6K1 R5K/6K/7K6/8K/10K1NA	✓ ✓ (UL9540 listing)	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
<b>Sacolar</b>	M5000H-48BP,MHP series MHP 3000 series MLP series,SP series	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
<b>Solark</b>	Sol-Ark-5k-P/Sol-Ark-8k-P/Sol-Ark-12k-P	✓ (UL9540 listing)	✓	✓	✓	✓	✓
<b>Senergy</b>	SE 3K6HB-60 SE 4K6/5K/6KHB-120 SE 8/10KHB-T/EU SE 5K/6K/8K/10KHB-UL	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓
<b>Hoymiles</b>	HYS-LV Series HAS-LV Series	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
<b>Voltronic Power</b>	Axpert VM III/ 4 Series Axpert MKS III/4 Series Axpert MAX/ II Series InfinitiSolar VIII/4 Series	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓
<b>GREENHEISS</b>	GH-IH 3/4/5/6 2M STYLE GH-IH 3/4/5/6 2M-15 STYLE	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
<b>SAJ</b>	H1-(3-6)K-S2 H1-(3-6)K-S2-15 H2-(5-10)K-LS2	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
<b>TBB</b>	RiiO Sun II Series Tyrann/Kinergier pro II Series Matrix II series	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
<b>Sinexcel</b>	Isuna 3000S-6000S Isuna 3000S0-12000S0	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
<b>SRNE</b>	HFP4850S80-H/ASP48100S200-H HESP4860S100-H HESP48100S200-H HESP48120S200-H	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓
<b>OPTI</b>	SP6000 ~ 11000 Handy Ultra SP4000 ~ 6000 Handy Plus	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
<b>Turbo Energy</b>	Hybrid Series 48V 5.0/6.0 Three phase Hybrid Series 48V 5.0/10.0	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
<b>hypontech</b>	HES-3000/3680/4000/5000/6000	✓	✓	✓	✓	✓	✓
<b>Sofar</b>	HYD 3-6K-EP	✓	✓	✓	✓	✓	✓
<b>SolaX</b>	X1-HYB-LV/X1-Lite-LV	✓	✓	✓	✓	✓	✓
<b>GROWATT</b>	SPH 3000-6000TL	✓	✓	✓	✓	✓	✓
<b>Ingeteam</b>	INGECON SUN STORAGE 1Play TL M 3-6kW	✓	✓	✓	✓	✓	✓
<b>Sungrow</b>	MG5RL/MG6RL	✓	✓	✓	✓	✓	✓
<b>Solitia</b>	S.HES-3000/3680/4000/5000/6000	✓	✓	✓	✓	✓	✓


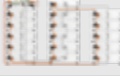
\*The communication protocols of SunESS Series /Atrix Series/MonaWall SE5 Series/Atrix basic Series are the same.

## HV Residential Energy Storage Solution



Inverter brand	Inverter model	SUNWODA ENERGY BATTERY SERIES
		SunESS-H
<b>Solis</b>	S6-EH3P(5-10)K-H-EU S6-EH3P(12-20)K-H	✓ (CEI 0-21 listing) ✓
<b>Deye</b>	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	✓
<b>SOLINTEG</b>	MHS-3~8K-30 MHT-4~12K-25 MHT-10~20K-40	✓
<b>YINERGY</b>	HI-3P(5-12)K-H	✓
<b>Hoymiles</b>	HYT-(5.0-12.0)HV-EUG1 HYT-(5.0-12.0)HV-AUG1 HAT-(5.0-10.0)HV-EUG1	✓ ✓ ✓
<b>Sinexcel</b>	Isuna 5000-20000T Isuna D5000-12K-SH Isuna D5000-12K-TH	✓ ✓ ✓
<b>Afore</b>	AF(3K-30K)TH	✓
<b>Luxpower</b>	TriP 6-20K	✓
<b>hypontech</b>	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)
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-TH 30 3M ADVANCED	✓	✓
Salicru	EQUINOX2 HSX	/	✓
Sineng	SN20-33HT	✓	✓

\*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	✓	✓
SOLINTEG	MHT-25K/30K/36K/40K/50K-100	✓	✓
	M2HT-25K/30K/40K/50K-150	✓	✓
	M2HT-75~125K-300	✓	✓
Megarevo	MPS030/MPS050/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	✓
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	✓
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)	✓

