

**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

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 26 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



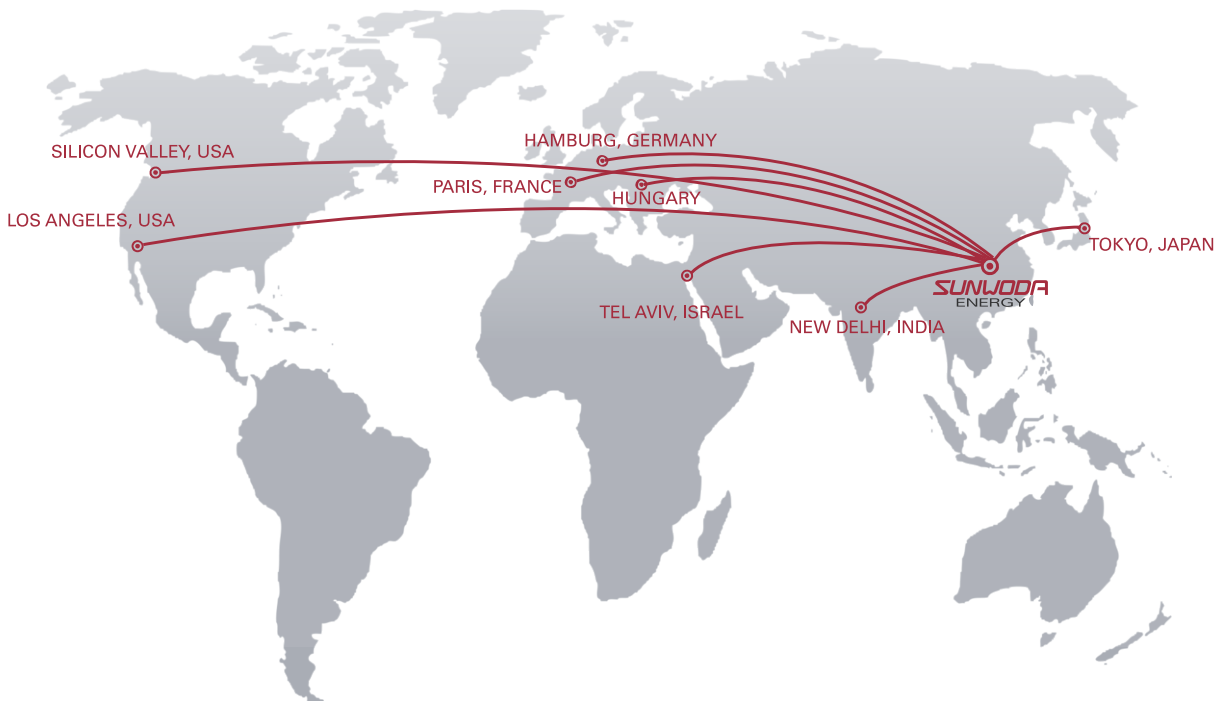
27 years
Focus on new energy industry for 27 years



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 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			

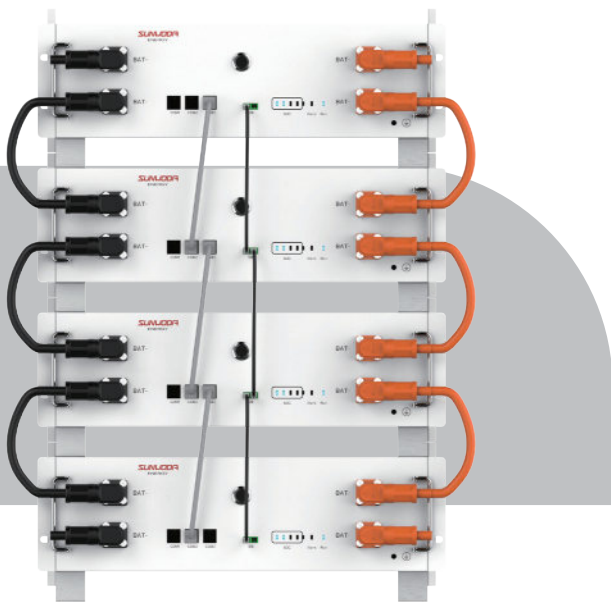
Operating conditions

Operating temperature	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



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 (optional)



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/100A	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	14°F to 122°F (-10°C to 50°C)
Storage temperature	-22°F to 140°F (-30°C to 60°C)
Humidity	10% to 90%, non-condensation
Dimensions (W*H*D, mm)	482*135*433/PACK
Weight	45kg/90kg/135kg/180kg
Enclosure protection rating	IP20
Altitude	<2000m
Cooling	Natural convection
Warranty	10 years
Certificates	IEC62619/CE/CEI 0-21/UL1973/FCC/UL9540A/UN38.3

MonaWall 5

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 (optional)



Battery APP (Optional)

- Real time monitoring
- Remote maintenance and upgrades



MonaWall 5

Model	MonaWall 5
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. 8 in parallel, Max. 40kWh

Operating conditions	
Installation location	Outdoor or indoor
Operating temperature	14°F to 122°F (-10°C to 50°C)
Storage temperature	-22°F to 140°F (-30°C to 60°C)
Humidity	10% to 90%, non-condensation
Dimensions (W*H*D, mm)	544*524*162
Weight	55kg
Enclosure protection rating	IP65
Altitude	< 2000m
Cooling	Natural convection
Warranty	10 years
Certifications	IEC62619/CE/UN38.3

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			

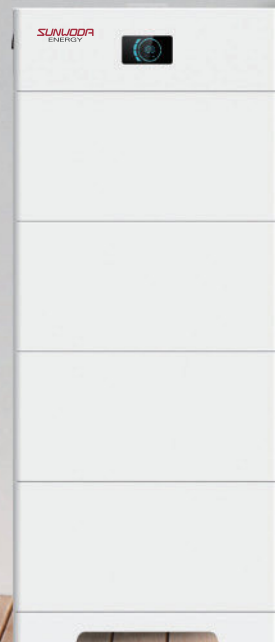
Operating conditions	
Installation location	Outdoor or indoor
Operating temperature	14°F to 122°F (-10°C to 50°C)
Dimensions (W*H*D, mm)	573*(597/912/1227/1542)*189
Weight	65kg, 115kg, 165kg, 215kg
Enclosure protection rating	IP65
Altitude	< 2000m
Cooling	Natural convection
Warranty	10 years
Certifications	IEC62619/CE/CEI 0-21/UL1973/FCC/UL9540/UL9540A/UN38.3



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	14°F to 122°F (-10°C to 50°C)
Storage temperature	-22°F to 140°F (-30°C to 60°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



For the US

Sun Hybrid Inverter

SW5-8KWHDC



More Safe

- Surge protection (SPD)
- Polarity reverse protection / short circuit protection
- IP65
- Optional Arc-fault prevention (AFCI)
- Optional rapid shut-down (RSD)



More Powerful

- Up to 150% PV
- Up to 3 MPPT
- Powerful back-up overload
- Split-phase support (Transformerless)



More Smart

- CAN / RS485 / 4G
- Digital IO
- Mobile / web APP



More Flexible

- Parallel installation
- UPS level switching <10ms
- Diesel generator support

Sun Hybrid Inverter

Parameters	SW5KWHDC-US	SW6KWHDC-US	SW7.6KWHDC-US	SW8KWHDC-US
INPUT(DC)				
Max.DC power	7.5KW	9KW	11.4KW	12KW
Max.input voltage	600V	600V	600V	600V
MPPT voltage range/rated input voltage	100-500V	100-500V	100-500V	100-500V
Min. input voltage/initial input voltage	100V	100V	100V	100V
Max. input current inputA/Input B	12.5A	12.5A	12.5A	12.5A
Max. input current per string inputA/Input B	12.5A	12.5A	12.5A	12.5A
Number of independent MPPT inputs/strings per MPPT input	2	2	3	3
Output(AC)				
rated power(at 230V)	5KW	6KW	7.6KW	8KW
Max. AC apparent power	5.5KW	6.6KW	6.6KW	8.8KW
Nominal AC voltage range	120/240 AC	120/240 AC	120/240 AC	120/240 AC
rated power frequency/ rated grid voltage	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Max. output current	26.4A(2 times for 10s)	31.8A(2 times for 10s)	40.2A(1.5 times for 10s)	42.3A(1.5 times for 10s)
Nominal.output current	20.6A	25A	31.7A	33.3A
Input.Peak AC current	37.3A	44.9A	56.9A	60A
Adjustable displacement power factor	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging
Switch time to backup mode	10ms	10ms	10ms	10ms
Feed-in phases/connection phases	single phase/split phase	single phase/split phase	single phase/split phase	single phase/split phase
Efficiency				
Max. efficiency	97.7%	97.7%	97.7%	97.7%
Battery				
rated battery voltage	350V-450V	350V-450V	350V-450V	350V-450V
Max. charge current	29A	34.2A	38A	38A
Max.discharge current	29A	34.2A	38A	38A
Protection				
PV String Input Reverse Polarity Protection			Integrated	
PV Arc Fault Detection			Integrated	
Insulation Resistor Detection			Integrated	
Residual Current Monitoring Unit			Integrated	
Output Over Current Protection			Integrated	
Output Shorted Protection			Integrated	
Rapid Shutdown	Optional	Optional	Optional	Optional
Anti-islanding Protection	YES	YES	YES	YES
Surge Protection	Type III	Type III	Type III	Type III
Integrated battery fuse	YES	YES	YES	YES
General data				
Dimensions(W/H/D)	620×412×215	620×412×215	620×412×215	620×412×215
Weight of inverter/battery	28KG	28KG	29.5KG	29.5KG
Operating temperature range in battery operation	-25°C ~ 60°C	-25°C ~ 60°C	-25°C ~ 60°C	-25°C ~ 60°C
Noise emission	<45 dB	<45 dB	<45 dB	<45 dB
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Cooling method	Smart Air Cooling	Smart Air Cooling	Smart Air Cooling	Smart Air Cooling
Degree of protection inverter/battery section	IP65	IP65	IP65	IP65
Maximum permissible value for relative humidity	< 95%	< 95%	< 95%	< 95%
Features				
Mounting type	Wall-mount bracket	Wall-mount bracket	Wall-mount bracket	Wall-mount bracket
Interface: Speedwire/Webconnect	CAN/RS485/Digital IO/WLAN			
Inverter warranty	5/10 years			
Certificates and approvals	UL1741/IEEE1547/ RULE21/ FCC 15 class B/ UL1998/ CSA22.2 No.107.1			

Max. 12 years warranty

SunESS Power



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 650x910x250	650x1505x250 650x1225x250
Storage temperature	-30~+60°C					
Operating temperature	-10~+50°C					
Relative humidity	10%~95%					
Altitude	<4000m					
Cooling method	Air cooling					
Ingress protection	IP65					
Noise	<30dB					
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	146.7kg	198.4kg	250.1kg	250.1kg	198.4kg+116.7kg	198.4kg+168.4kg
Overall width	650mm					
Total depth	250mm					

SunESS Power

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 / B: 30	
Max. short-circuit current per MPPT (A)		A: 19			A: 19 / B: 38	
Number of MPPTs				2		
Number of input strings per MPPT	A: 1	A: 1	A: 1	A: 1/ B: 2	A: 1/ B: 2	A: 1 / B: 2
Battery Input Parameters						
Support battery capacity (kwh)	5~40	5~40	15~40	20~40	30~40	30~40
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)			220/380 & 230/400	3W/N/PE		
Rated output frequency (Hz)				50/60		
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)			220/380 & 230/400			
Rated output frequency (Hz)				50/60		
THDv (@Linear Load)				<3%		
Efficiency						
Max. efficiency	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%
Battery side \rightleftharpoons AC side maximum efficiency	97%	97%	97%	97%	97%	97%
Euro. Efficiency	97%	97%	97%	97%	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)				-10~50 °C		
Relative humidity				0~100%		
Max. operating altitude (m)				<4000m		
Cooling method				Air Cooling (\leq 47dB)		
Display				LED&APP		
BMS communication method	RS485;CAN	RS485;CAN	RS485;CAN	RS485;CAN	RS485;CAN	RS485;CAN
Meter communication method	RS485	RS485	RS485	RS485	RS485	RS485
Monitoring method	4G/Wifi	4G/Wifi	4G/Wifi	4G/Wifi	4G/Wifi	4G/Wifi
Weight (kg)	40	40	40	40	40	40
Dimensions (W/H/D)mm	650x480x250	650x480x250	650x480x250	650x480x250	650x480x250	650x480x250
Topology				Transformerless		
Degree of protection				IP65		
Model classification				One machine/All in One Unit		
Installation method				Stacked in one piece		

C&I Battery Rack



Easy to install and deploy with large space utilization



Unique modular design & flexible function configuration



Real time monitoring , remote maintenance and upgrades

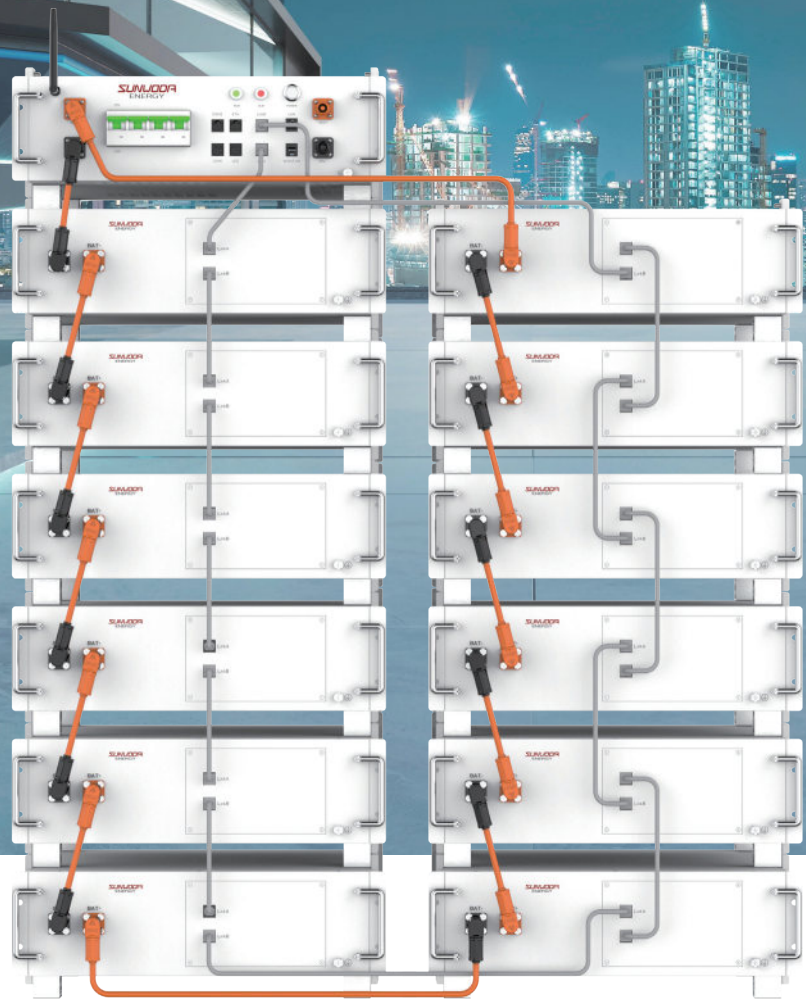


Strong scalability, simple & convenient expansion on DC sides

C&I Battery 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	371.2~454.4V	417.6~511.2V	464~568V	510.4~624.8V	556.8~681.6V
Rated energy	25kWh	30kWh	35kWh	40kWh	45kWh	50kWh	55kWh	60kWh
Usable energy (90%DOD)	23kWh	27.6kWh	32.2kWh	36.8kWh	41.4kWh	46kWh	50.6kWh	55.2kWh
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℃, 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℃							
	Discharge: -20-50℃							
Humidity	10%~95%RH							
Altitude	< 2000m							
Short circuit protection	Yes							
Over circuit 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							

C&I Battery Rack-Simple



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

C&I Battery Rack-Simple

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	371.2~454.4V	417.6~511.2V	464~568V	510.4~624.8V	556.8~681.6V
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, mm)	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℃, 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℃							
	Discharge: -20-50℃							
Humidity	10%~95%RH							
Altitude	< 2000m							
Short circuit protection	Yes							
Over circuit 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							

C&I 50/60



Easy to install and deploy with large space utilization



Unique modular design & flexible function configuration



With self-use, peak shifting, forced charging & discharging and other working modes



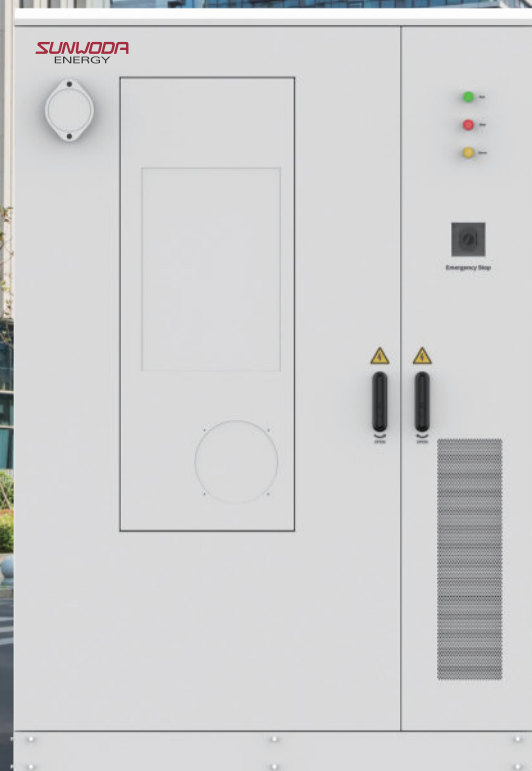
Strong scalability, simple & convenient expansion on both AC and DC sides

C&I 50/60

Module	CIESS 3060	CIESS 5060
Battery parameters		
Number of battery packs	12	12
Rated voltage	614.4V	
Voltage range	537.5~691.2V	
Rated energy	60kWh	
Max. charging and discharging current	100A	
Communication	RS485/CAN	
Cycle life	6000times	
PV parameters		
Max.PV input power	39kW	65kW
Rated input voltage	600VDC	
Max.input voltage	1000VDC	
MPPT voltage range	200~850VDC	
PV input current	36+36+36 (A)	36+36+36+36 (A)
AC side parameters		
AC rated input/output power	30kVA	50kVA
AC Max. input/output power	33kVA	55kVA
AC rated input/output current	45.6A	75.8A
AC Max. input/output power	60A	83.3A
Voltage	3L/N/PE; 230/400V	
Frequency	50/60Hz	
THDi	≤ 3%	
Power factor	0.8 leading to 0.8 lagging	
System parameters		
Dimensions (W*H*D, mm)	1200*2160*750	
Weight	860kg	880kg
Communication	CAN/RS485/WiFi/ETH	
Warranty	5 years	
Expansion	Support in parallel up to 150kW/180kWh	
Enclosure protection rating	IP55	
Cooling	Air cooling	
Environment temperature	-30~50°C	
Humidity	10%~95%RH	
Altitude	< 2000m	
Certifications	UN38.3/CE/IEC62619/VDE-AR-N 4105/IEC 62109	

NoahX

100kW/215kWh
Energy storage system



Features

- High integration

Adopting All in One design concept, high protection outdoor cabinet design, highly integrated energy storage system can be applied to multi-purpose scenarios.

- Configuration flexibility

Modular design, flexible expansion, easy operation and maintenance.

- Proven Quality

We offer a mature and reliable battery pack, PCS, and advanced EMS, ensuring the highest quality and reliability.

- Top-Tier Safety

Our system boasts multi-level safety features, ranging from battery cell and pack technology to advanced EMS control and a dedicated fire extinguisher system (Pack level and system level).

- Multiple operation modes

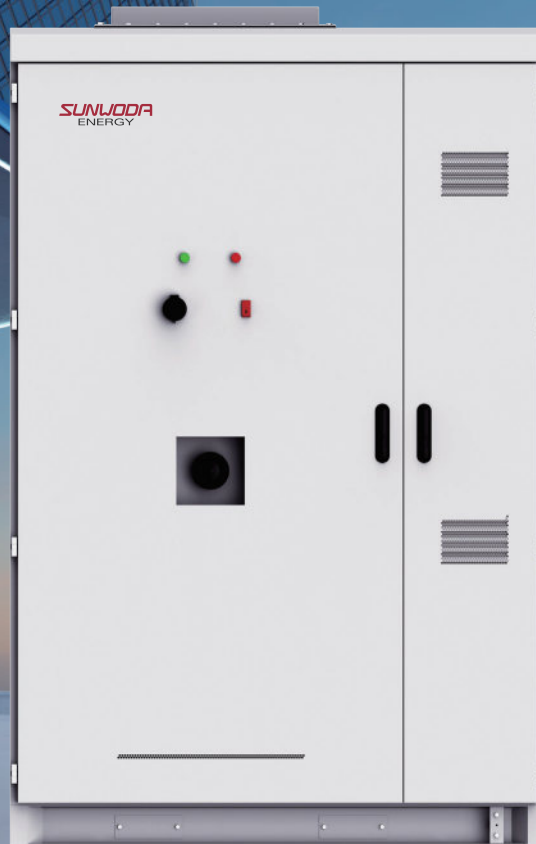
Our system provides a number of operational modes (On-grid, Off-grid, peak shaving, TOU, etc.), as well as the option to customize and upgrade the software to fit your specific requirements.

NoahX 100kW/215kWh

project description	Specifications	Remark	
System nominal capacity	215kWh	DC side	
Max. charging power	100kW	110kW@10min	
Max. discharge power	100kW	110kW@10min	
DC voltage range	672 ~ 864V	cell 2.8~3.6V	
Cyclic efficiency	>80%		
Power factor	-0.99 ~ + 0.99	Rated output power	
Working temperature	-20°C ~ 50°C	Derating above 40°C	
Storage ambient temperature	-30°C ~ 60°C		
Working relative humidity	5 ~ 95%	condensationless	
Storage relative humidity	5 ~ 95%	condensationless	
Altitude	≤2000m	>2000m derating	
System noise level	<75dB	Outside 1m range	
Degree of protection	IP54		
Outdoor cabinet size W*D*H	1500mm*1350mm*2200mm	Air conditioner/PCS hood included	
Outdoor cabinet weight	<2500kg		
Outdoor cabinet port	Power port Ground port Communication port	3 channels 2 channel 1 channel	Grid (3P3W copper row 1 channel) Cabinet back 2 sides Ethernet communication 1 channel
Cycle life	4000	25°C, 0.5C charging and discharging, 80%DOD, EOL≥80%	
Shipping requirements	Shipping/land transportation		

NoahX

100kW/215kWh Energy storage system



Features

- Comprehensive Integration

Our solution combines PCS, EMS, switch, battery, fire extinguisher, and a liquid cooling system into a single, integrated system. This makes it expandable as well as effortless to install.

- Enhanced Cooling Technology

With a state-of-the-art liquid cooling system, we guarantee consistent performance, Wide temperature range (-30°C to 55°C) and an extended cycle life for your system.

- Proven Quality

We offer a mature and reliable liquid cooling pack, PCS, and advanced EMS, ensuring the highest quality and reliability.

- Top-Tier Safety

Our system boasts multi-level safety features, ranging from battery cell and pack technology to advanced EMS control and a dedicated fire extinguisher system (Pack level and system level).

- Multiple operation modes

Our system provides a number of operational modes (On-grid, Off-grid, peak shaving, TOU, etc.), as well as the option to customize and upgrade the software to fit your specific requirements.

NoahX 100kW/215kWh

project description	Specifications	Remark
System nominal capacity	215kWh	DC side
Rated charging power	100kW	
Rated discharge power	100kW	
DC voltage range	672V~864VDC	
Working temperature	-30 C ~ 55 C	-30°C~-20°C, 45°C~55°C Maximum support 100KW
Storage ambient temperature	-30 C ~ 60 C	
Working relative humidity	5 ~ 95%	
Storage relative humidity	5 ~ 95%	
Altitude	≤2000m	
Degree of protection	IP55	
Pollution level	III	
Outdoor cabinet size W*D*H	1570mm*1350mm*2400mm	
Outdoor cabinet weight	2500KG	
Outdoor cabinet port	Ground port	1 channel
	Communication port	1 channel
Shipping requirements	Shipping/land transportation	

NoahX 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

NoahX L344

Single Cluster Solution	
Rated energy	344kWh/301kWh/258kWh/215kWh/172kWh
No.of modules	8PCS/7PCS/6PCS/5PCS/4PCS
RTE@DC side (0.5CP)	> 93%
Rated voltage	1228.8V/1075.2V/921.6V/768V/614V
Voltage range	1075.2~1382.4/940.8~1209.6/ 806.4~1036.8/672~864/537.6~691.2
Rated C-rate	0.5CP
Max. C-rate	1CP
Working temperature	-30°C~55°C
Storage temperate	-40°C~60°C
Working relative humidity	0~100% (no condensation)
Altitude	≤ 3000m (derating above 3000m)
Cooling method	Liquid cooling (water and glycol mix)
Fire suppression system	Pack level clean gas agent fire suppression+ combustible gas detection and ventilation linkage+deflagration relief panel
Auxiliary power supply	220VAC/50HZ; 110VAC/60HZ
Communication interface	CAN/RS485/Ethernet
Communication protocol	Modbus/IEC 61850
Standard @ compliance	NFPA68/69/NFPA855/GB36276/IEC62619/ IEC62933/UN3536/UL9540A
Enclosure protection rating	IP55
Dimensions (W*H*D, mm)	1550*1100*2500
Weight	3330kg/3015Kg/2700kg/2385kg/2070kg



NoahX 500

PV + Storage + Diesel
Generator Microgrid
Energy Storage System



Features

- High product integration & short project construction period
- Realize the self-recovery of the system quickly with black start function
- With up to 8,000 battery cycles and 20-year life
- Support remote/local monitoring and operation and maintenance with cloud platform management system
- Battery capacity utilization increased by 7%, LCOS decreased by 20% with intelligent battery management system
- Extreme safety, five-level safety design, double fire protection, with combustible gas discharge and explosion venting

NoahX 500

System Parameter	
Rated energy	300~530kWh
Max. output power	250~500kW
Max. output voltage	400V
Rate	1C(1.5C@500ms)
Rated frequency	50Hz
Output connecting	3 phases 4 wires
Total current distortion rate	< 3%
DC component	< 0.5%
Power factor	0.9 leading to 0.9 lagging

Operating conditions	
Operating temperature	-30°C~55°C
Storage temperature	-40°C~60°C
Humidity	0~95%
Altitude & Cooling	≤ 3000m Air cooling
Fire Suppression System	HFC-227ea + Water Extinguisher combustible gas emission + explosion venting design
Communication Interface	Ethernet
Communication	Modbus
Protection rating	IP55
Certificates	GB36276/IEC62619/UN383
Dimensions (W*H*D, mm)	2991*2438*2896

DT Series

Portable Power Station Product Line



**New DT Series: Powerful but still portable.
Small size with high power to boost outdoor
equipment.**

Features

- High Output Power/Capacity ratio, 50% more than the market.
- Ultra-Fast Recharge, charging to 80% capacity in just 1 hour.
- PowerRush Inverter Technology, empowering high-power devices.¹
- Built in EPS (Emergency Power Supply) for automatic switching within 20 milliseconds.

¹ Supports resistive loads such as hairdryers, electric kettles, coffee machines, toasters, etc.

DT1400 Portable Power Station



PowerRush



1-Hour
Recharge to 80%



400W Solar Input



Emergency Power Supply



Dual PD 100W

US/CA/JP

EU/UK/AU/CN

General	
Power	1400W continuous, 2800W peak
Capacity	832Wh (41.6V, 20Ah)
Dimensions	375x263x260mm / 14.8x10.4x10.2in
Net Weight	13.5kg / 29.8lbs
Cell Chemistry	LiFePO4 (Lithium Iron Phosphate)
Cycle Life	>4000 cycles (100% DOD, 80% EOL)
Certifications	CE, RoHS, UL, FCC, PSE, UN38.3, SDS
Input	
AC Charging (IEC C14)	100-120V~50Hz/60Hz, 832W max
DC Charging (XT60)	11-60V~10A, 400W max
Output	
AC Output	(x6), pure sine wave, 100-120Vac 50/60Hz, 1400W rated, 2800W surge
USB-A (x2)	5V~2.4A
USB-C PD (x2)	5/9/12/15V~3A, 20V~5A, 100W max
Car Outlet (x1)	12V~10A, 120W max