SRP

Safe / Reliable / Powerful

ENERGY STORAGE EXPERT

RESOURCES TECHNOLOGY CO., LTD

Address: 3rd Floor, Block A, Rongxinxing Creative Park, Liuxian 2nd Road, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China

Contact: sales@srpowergroup.com

Phone: +86-755-23320319

www.srpowergroup.com

RESOURCES TECHNOLOGY CO., LTD

Safe

- Integrated essential protecting methods
- Environmental friendly materials with ROHS certified
- Global TIER 1 cell manufacturer

Reliable

- Strong design with tough testing demands
- High Ingress protection rating
- Achieve different types of international standards certificates

Powerful

- Wide-range & competitive products
- Capable of offering best ESS solutions
- Convenient expansion to meet power demand

MISSON

BRING SAFE AND GREEN ENERGY TO EVERY CORNER OF THE WORLD

VISION

TO BE A GLOBAL LEADING COMPANY IN ENERGY STORAGE SYSTEMS

Company Profile

Resources Technology Co., Ltd

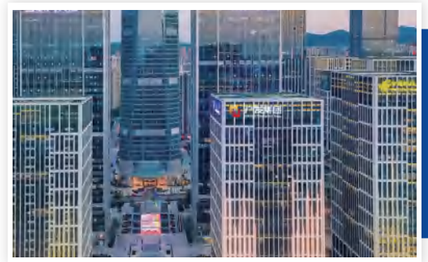
Resources Technology Co., Ltd (SRP for short) is a high-tech enterprise focusing on the R&D manufacturing and sales of energy storage inverters and LFP battery systems. The company was founded in 2006 and headquartered in Jinan, Shandong Province, China.The core team of the enterprise is composed of domestic leading technical talents and senior experts in power electronics technology.

SRP is focusing on four application scenarios: Residential energy storage system, C&I energy storage system, multipurpose LFP Battery application and photovoltaic grid-connected power station. SRP provides customers with standard energy storage products and customized solutions.

Relevant products have obtained international certifications such as IEC, ENEC, CE, VDE, UL, G98/G99, NRS and AS, etc. Based on the vision of “customer oriented”, SRP will keep on investing technology innovation and providing customers with competitive and reliable products and services.

- Residential Energy Storage System
- C&I Energy Storage System
- Multipurpose LFP Battery Application
- Photovoltaic Grid-connected Power Station

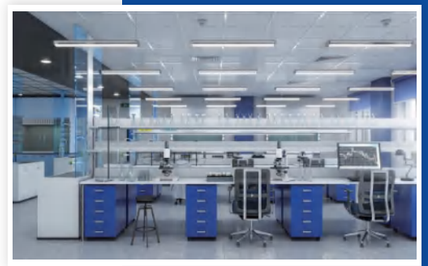
Market Service



Headquarters:

Jinan Headquarters

Room 1502,Building 5, Zone 4, HanYu Gold Valley, High-tech District,Jinan City, Shandong, China



R&D Center:

Shenzhen R&D Center

3rd Floor, Block A, Rongxinxing Creative Park, Liuxian 2nd Road, Xin'an Street, Bao'an District, Shenzhen City, Guangdong, China

Suzhou R&D Center

No.15, Shuanglouli Road, SIP, Suzhou City，Jiangsu Province, China

Manufacturing Center:

Huizhou Manufacturing Center

Hongda (International) Industrial Manufacturing City, Luoyang Town, Boluo County, Huizhou, China

Contents

Products

Hybrid Inverter - Single Phase 3.6K~6K

Product Features

- Compatible with most common low-voltage batteries (lead-acid & lithium)
- Max charging/discharging current up to 120A
- The typical switch time between on-grid mode and back-up mode is 10ms
- Remote upgrade and configuration; safety-related functions integrated; easy for cooperating with BMS
- IP65 protection to ensure the inverter can work under various environmental conditions
- Easily installed in the residential site

	SRP-3.6KRS-H1	SRP-4.6KRS-H1	SRP-5KRS-H1	SRP-6KRS-H1
Battery Input Data				
Battery Type	Li-ion / Lead-acid	Li-ion / Lead-acid	Li-ion / Lead-acid	Li-ion / Lead-acid
Nominal Battery Voltage (V)	48	48	48	48
Battery Voltage Range (V)	40～65	40～65	40～65	40～65
Max. Charge/Discharge Current (A)	60/60	120/120	120/120	120/120
Max. Charge/Discharge Power (W)	3000/3000	4600/4600	5000/5000	6000/6000
PV String Input Data				
Max. Array Input Power (W)	6300	9000	9000	9000
Max. DC Input Voltage (V)	550	550	550	550
Nominal DC Input Voltage (V)	360	360	360	360
Start-up Voltage (V)	90	90	90	90
MPPT Voltage Range (V)	70～540	70～540	70～540	70～540
Max. Input Current per MPPT (A)	15/15	15/15	15/15	15/15
Max. Short-circuit Current per MPPT (A)	20/20	20/20	20/20	20/20
No. of MPPT	2	2	2	2
No. of Strings per MPPT	1	1	1	1
AC Input Data				
Nominal Input Apparent Power (VA)	3600	4600	5000	6000
Max. Input Apparent Power (VA)	6300	9000	9000	9000
Max. Input Current (A)	29	41	41	41
AC Output Data (on-grid)				
Nominal Ouput Active Power (W)	3600	4600	5000	6000
Nominal Output Apparent Power (VA)	3600	4600	5000	6000
Max. Output Apparent Power (VA)	3960	5060	5500	6600
Nominal Output Voltage (V)	220/230/240	220/230/240	220/230/240	220/230/240
Output Voltage Range (V)	150-300(Adjustable)			
Nominal Output Frequency (Hz)	50/60			
Output Frequency Range (Hz)	45-65(Ajustable)			
Max. Output Current (A)	16	22	25	27.2
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
THDi	<3%	<3%	<3%	<3%
Back-up Output Data				
Nominal Output Apparent Power (VA)	3600	4600	5000	6000
Max. Output Apparent Power (VA)	3960	5060	5500	6600
Nominal Output Voltage (V)	230	230	230	230
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60
Max. Output Current (A)	18	23	25	30
Transfer Time (ms)	10(typ) / 20(max)	10(typ) / 20(max)	10(typ) / 20(max)	10(typ) / 20(max)
THDv @ Linear Load	<3% @100% R Load			
Efficiency				
Max. Efficiency	97.30%	97.30%	97.30%	97.30%
Battery Discharge to AC Efficiency	94.30%	94.30%	94.30%	94.30%
Protection				
PV Reversed Polarity Protection	Yes			
Residual Current Monitor	Yes			
PV Over Voltage Protection	Yes			
PV Over Current Protection	Yes			
Anti-islanding Protection	Yes			
DC Surge Protection	Type III			
AC Surge Protection	Type III			
Insulation Resistor Detector	Yes			
Output Over Current Protection	Yes			
Output Short Circuit Protection	Yes			
Output Over Voltage Protection	Yes			
General				
Operating Temperature Range (°C)	-25～60(>45°C derating)			
Relative Humidity	0～100%			
Max. Operating Altitude (m)	4000			
Cooling Method	Natural Cooling			
User Interface	APP+LED			
Communication	RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WiFi/GPRS/LAN			
Weight (kg)	20	25	25	25
Dimension (W*H*D mm)	515*485*175			
Topology	Transformerless			
Ingress Protection Rating	IP65			
Mounting Method	Wall Bracket			

Hybrid Inverter-Single/Split Phase 8K/10K

Product Features

- Compatible with most common low-voltage batteries (lead-acid & lithium)
- Parallel capacity is up to 9 units
- Remote upgrade and configuration; safety-related functions integrated; easy for cooperating with BMS
- European version supports external remote shutdown device
- UL version is integrated with Rapid Shutdown Device, and it can output 100% load power under back-up mode

	SRP-8KRS-H1	SRP-10KRS-H1	SRP-8KRS-H1-UL	SRP-10KRS-H1-UL
Battery Input Data				
Battery Type	Li-ion / Lead-acid	Li-ion / Lead-acid	Li-ion / Lead-acid	Li-ion / Lead-acid
Nominal Battery Voltage (V)	48	48	48	48
Battery Voltage Range (V)	40～65	40～65	40～65	40～65
Max. Charge/Discharge Current (A)	210/180	210/210	210/180	210/210
Max. Charge/Discharge Power (W)	10000/8000	10000/10000	10000/8000	10000/10000
PV String Input Data				
Max. Array Input Power (W)	12000	15000	12000	15000
Max. DC Input Voltage (V)	600	600	600	600
Nominal DC Input Voltage (V)	360	360	360	360
Start-up Voltage (V)	90	90	90	90
MPPT Voltage Range (V)	70～540	70～540	70～540	70～540
Max. Input Current per MPPT (A)	30/22/22	30/22/22	30/22/22	30/22/22
Max. Short-circuit Current per MPPT (A)	40/30/30	40/30/30	40/30/30	40/30/30
No. of MPPT	3	3	3	3
No. of Strings per MPPT	2	2	2	2
AC Input Data				
Nominal Input Apparent Power (VA)	8000	10000	8000	10000
Max. Input Apparent Power (VA)	12000	15000	12000	15000
AC Output Data (on-grid)				
Nominal Ouput Active Power (W)	8000	10000	8000	10000
Nominal Output Apparent Power (VA)	8000	10000	8000	10000
Max. Output Apparent Power (VA)	8800	11000	8800	11000
Nominal Output Voltage (V)	220/230/240		120V/240V (Split phase) / 230V(Single phase) / 208V (2/3 phase)	
Nominal Output Frequency (Hz)	50/60		60	
Output Frequency Range (Hz)	45-65(Ajustable)		55-65(Ajustable)	
Max. Output Current (A)	40	50	40	50
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
THDi	<3%	<3%	<3%	<3%
Back-up Output Data				
Nominal Output Apparent Power (VA)	8000	10000	8000	10000
Max. Output Apparent Power (VA)	8800	11000	8800	11000
Nominal Output Voltage (V)	230		120V/240V(Split phase) / 230V (Single phase)/208V (2/3 phase)	
Nominal Output Frequency (Hz)	50/60	50/60	60	60
Nominal Output Current (A)	34.8	43.5	33.4	41.7
Transfer Time (ms)	10(typ) / 20(max)	10(typ) / 20(max)	10(typ) / 20(max)	10(typ) / 20(max)
THDv @ Linear Load	<3% @ 100% R Load		<3% @ 100% R Load	
Efficiency				
Max. Efficiency	98%	98%	98%	98%
Battery Discharge to AC Efficiency	95%	95%	94.50%	94.50%
Protection				
PV Reversed Polarity Protection	Yes		Yes	
Residual Current Monitor	Yes		Yes	
PV Over Voltage Protection	Yes		Yes	
PV Over Current Protection	Yes		Yes	
Anti-islanding Protection	Yes		Yes	
DC Surge Protection	Type II		Type II	
AC Surge Protection	Type II		Type II	
Insulation Resistor Detector	Yes		Yes	
Output Over Current Protection	Yes		Yes	
Output Short Circuit Protection	Yes		Yes	
Ouput Over Voltage Protection	Yes		Yes	
Generator	Yes		Yes	
AFCI	Optional		Yes	
Remote Shutdown	Optional		-	
Rapid Shutdown	-		Yes	
General				
Operating Temperature Range (°C)	-25～60(>45°C derating)		-25～60(>45°C derating)	
Relative Humidity	0～100%		0～100%	
Max. Operating Altitude (m)	4000		4000	
Cooling Method	Fan Cooling		Fan Cooling	
User Interface	LED+APP		LED+APP	
Communication	RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WiFi/GPRS/LAN			
Weight (kg)	37	37	37	37
Dimension (W*H*D mm)	420*800*240		420*800*240	
Topology	Transformerless		Transformerless	
Ingress Protection Rating	IP65		IP65	
Mounting Method	Wall Bracket		Wall Bracket	

Hybrid Inverter-Three Phase 5K~10K

Product Features

- Compatible with medium-voltage batteries (lead-acid & lithium)
- Max charging/discharging current up to 50A
- Remote upgrade and configuration; safety-related functions integrated; easy for cooperating with BMS
- DC/AC Surge Protection TYPE II
- Optional Arc-Fault Circuit-Interrupter
- Low noise without fan design

	SRP-5KRT-H1	SRP-6KRT-H1	SRP-8KRT-H1	SRP-10KRT-H1
Battery Input Data				
Battery Type	Li-ion / Lead-acid	Li-ion / Lead-acid	Li-ion / Lead-acid	Li-ion / Lead-acid
Nominal Battery Voltage (V)	200	240	180	200
Battery Voltage Range (V)	150-600	150-600	150-600	150-600
Max. Charge/Discharge Current (A)	25/25	25/25	50/50	50/50
Max. Charge/Discharge Power (W)	9000/5800	9000/7000	15000/9100	15000/11300
PV String Input Data				
Max. Array Input Power (W)	8000	9000	12000	15000
Max. DC Input Voltage (V)	1000	1000	1000	1000
Nominal DC Input Voltage (V)	600	600	600	600
Start-up Voltage (V)	160	160	160	160
MPPT Voltage Range (V)	160-950	160-950	160-950	160-950
Max. Input Current per MPPT (A)	15/15	15/15	20/30	20/30
Max. Short-circuit Current per MPPT (A)	20/20	20/20	30/40	30/40
No. of MPPT	2	2	2	2
No. of Strings per MPPT	1+1	1+1	1+2	1+2
AC Input Data				
Nominal Input Apparent Power (VA)	5000	6000	8000	10000
Max. Input Apparent Power (VA)	15000	15000	15000	15000
Max. Input Current (A)	25	25	25	25
AC Output Data (on-grid)				
Nominal Ouput Active Power (W)	5000	6000	8000	10000
Nominal Output Apparent Power (VA)	5000	6000	8000	10000
Max. Output Apparent Power (VA)	5500	6600	8800	10000
Nominal Output Voltage (V)	380 / 400 / 415, 3L+N+PE			
Output Voltage Range (V)	277-520 (Adjustable)			
Nominal Output Frequency (Hz)	50/60			
Output Frequency Range (Hz)	45-65			
Max. Output Current (A)	8.3	10	13.3	16.7
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
THDi	<3%	<3%	<3%	<3%
Back-up Output Data				
Nominal Output Apparent Power (VA)	5000	6000	8000	10000
Max. Output Apparent Power (VA)	5500	6600	8800	11000
Nominal Output Voltage (V)	380 / 400 / 415, 3L+N+PE			
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60
Nominal Output Current (A)	7.6	9.1	12.2	15.2
Max. Output Current (A)	11.5	13.7	18.2	22.7
Transfer Time (ms)	10(typ) / 20(max)	10(typ) / 20(max)	10(typ) / 20(max)	10(typ) / 20(max)
THDv @ Linear Load	<3% @100% R Load			
Efficiency				
Max. Efficiency	98.20%	98.20%	98.40%	98.40%
Europ Efficiency	97.20%	97.20%	97.90%	97.90%
Protection				
PV Reversed Polarity Protection	Yes		Yes	
Residual Current Monitor	Yes		Yes	
PV String Monitoring	Yes		Yes	
AFCI	Optional		Optional	
Anti-islanding Protection	Yes		Yes	
DC/AC Surge Protection	Type II, Type II		Type II, Type II	
Insulation Resistor Detector	Yes		Yes	
GFCI	Yes		Yes	
Output Over Voltage / Current Protection	Yes		Yes	
Output Short Circuit Protection	Yes		Yes	
Remote Shut Down	Optional		Optional	
General				
Operating Temperature Range (°C)	-25~60 (>45°C derating)		-25~60 (>45°C derating)	
Relative Humidity	0~100%		0~100%	
Max. Operating Altitude (m)	4000 (>2000m derating)		4000 (>2000m derating)	
Cooling Method	Natural Cooling		Natural Cooling	
User Interface	APP+LED		APP+LED	
Communication	RS485/CAN (for BMS), DRM/RCR (for DI) / RS485 (for Meter) 1*DO USB (Firmware upgrade), Optional: WiFi/GPRS/4G/Ethernet			
Weight (kg)	30		32	
Dimension (W*H*D mm)	530*550*212		530*550*212	
Topology	Transformerless		Transformerless	
Ingress Protection Rating	IP65		IP65	
Mounting Method	Wall Bracket		Wall Bracket	

Hybrid Inverter - Three Phase 15K/30K

Product Features

- 15K is compatible with low-voltage batteries (lead-acid & lithium),30K is compatible with high-voltage batteries (lead-acid & lithium)
- 15K supports 6 units working in parallel at most
- 30K supports 4 units working in parallel at most
- Dual load outputs can help to reach smart load management
- Support the access of generators
- Buit-in wifi module design to make communication more stable
- Remote upgrade and configuration
- IP65 protection to ensure the inverter can work under various environmental conditions

	SRP-15KCT-H1	SRP-30KCT-H1
Battery Input Data		
Battery Type	Li-ion / Lead-acid	Li-ion / Lead-acid
Nominal Battery Voltage (V)	48	600
Battery Voltage Range (V)	40~65	500~850
Max. Charge/Discharge Current (A)	300/300	50/50
Max. Charge/Discharge Power (W)	15000/15000	30000/30000
PV String Input Data		
Max. Array Input Power (W)	16000	40000
Max. DC Input Voltage (V)	1000	1000
Nominal DC Input Voltage (V)	720	720
Start-up Voltage (V)	320	320
MPPT Voltage Range (V)	350~850	350~900
Max. Input Current per MPPT (A)	27/27	26/26/26
Max. Short-circuit Current per MPPT (A)	30/30	30/30/30
No. of MPPT	2	3
No. of Strings per MPPT	2	2
AC Input Data		
Nominal Input Apparent Power (VA)	15000	30000
Max. Input Apparent Power (VA)	16000	40000
Max. Input Current (A)	40	50
AC Output Data (on-grid)		
Nominal Ouput Active Power (W)	15000	30000
Nominal Output Apparent Power (VA)	15000	30000
Max. Output Apparent Power (VA)	16500	33000
Nominal Output Voltage (V)	380 / 400 / 415, 3L+N+PE	
Output Voltage Range (V)	277~520(Adjustable)	
Nominal Output Frequency (Hz)	50/60	
Output Frequency Range (Hz)	45-65(Ajustable)	
Max. Output Current (A)	21.7	43.5
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)	
THDi	<3%	<3%
Back-up Output Data		
Nominal Output Apparent Power (VA)	15000	30000
Max. Output Apparent Power (VA)	16500	33000
Nominal Output Voltage (V)	380 / 400 / 415, 3L+N+PE	
Nominal Output Frequency (Hz)	50/60	50/60
Max. Output Current (A)	23.9	47.8
Transfer Time (ms)	10(typ) / 20(max)	10(typ) / 20(max)
THDv @ Linear Load	<3% @100% R Load	
Efficiency		
Max. Efficiency	96.50%	96.50%
Europ Efficiency	95.80%	96.00%
Battery Discharge to AC Efficiency	91.00%	96.00%
Protection		
PV / Battery Reversed Polarity Protection	Yes	
Residual Current Monitor	Yes	
DC Over Voltage / Current Protection	Yes	
DC Switch	Yes	
Anti-islanding Protection	Yes	
DC / AC Surge Protection	Type II, Type II	
Insulation Resistor Detector	Yes	
Output Over Voltage / Current Protection	Yes	
AC Short Circuit Protection	Yes	
Remote Shut Down	Optional	
Generator	Yes	
General		
Operating Temperature Range (°C)	-25~60 (>45°C derating)	
Relative Humidity	0~100%	
Max. Operating Altitude (m)	4000	
Cooling Method	Fan Cooling	
User Interface	APP+LCD	
Communication	RS232, USB, CAN, RS485, WiFi	
Weight (kg)	74	76.3
Dimension (W*H*D mm)	660*750*255	660*750*255
Topology	Transformerless	
Ingress Protection Rating	IP65	
Mounting Method	Wall Bracket	

Off-Grid Inverter - Single Phase 3K/5K

Product Features

- Compatible with most common low-voltage batteries (lead-acid & lithium)
- 5K supports 9 units working in parallel at most
- Max charging current up to 120A
- LCD screen, safely interactive design between users and inverters
- Monitoring via app by WiFi; easy for cooperating with BMS
- Smart fan cooling design

	SRP-3KRS-F1	SRP-5KRS-F1
Battery Input		
Battery Type	Li-Ion/Lead-acid	Li-Ion/Lead-acid
Battery Voltage	24Vdc	48Vdc
Inverter Output		
Nominal Power(W)	3000	5000
Nominal Apparent Power (VA)	3000	5000
Parallel Capacity	No	Yes, 9 units maximum
AC Voltage Regulation (Battery Mode)	230Vac ± 5% @50/60Hz	230Vac ± 5% @50/60Hz
Surge Power (VA)	6000	10000
Efficiency (peak)	93%	93%
Waveform	Pure sine wave	Pure sine wave
Transfer Time	10ms (for personal computers), 15ms (for home appliances)	
Solar Charger		
Max. PV Array Power (W)	4000	6000
MPPT Range @ Operating Voltage	120Vdc-430Vdc	120Vdc-430Vdc
Number of Independent MPP Trackers	1	1
Number of Strings Per MPPT	1	1
Max. Input Current Per MPPT (A)	16	18
Max. PV Array Open Circuit Voltage (V)	500Vdc	500Vdc
Max. Solar Charge Current (A)	120	80
AC Charger		
Max. AC Charge Current(A)	120	80
AC Input Voltage (V)	230Vac	230Vac
Voltage Range (V)	170-280Vac (For Personal Computers); 90-280 Vac (For Home Appliances)	
Frequency Range(Hz)	50/60	50/60
General		
User Interface	APP+LCD Display+LED	
Communication	USB, Optional: Wi-Fi, 4G, GPRS, RS485/CAN, Dry-contact	
Ingress Protection Rating	IP20	IP20
Dimension (W*H*D mm)	300*450*110.5	300*450*110.5
Weight (kg)	7.5	8
Relative Humidity	20% ~ 95%	20% ~ 95%
Max. Operating Altitude (m)	2000m, >1000m derating	2000m, >1000m derating
Operating Temperature (°C)	0~50 (>40°C derating)	0~50 (>40°C derating)
Storage Temperature (°C)	-15~60	-15~60
Protection		
PV Reversed Polarity Protection	Yes	
PV Over Voltage Protection	Yes	
PV Over Current Protection	Yes	
Battery Reversed Polarity Protection	Yes	
Battery Over Voltage Protection	Yes	
Battery Over Current Protection	Yes	
AC Surge Protection	Type III	
Output Over Current Protection	Yes	
Output Short Circuit Protection	Yes	
Output Over Voltage Protection	Yes	

Off-Grid Inverter - Single Phase 6K

Product Features

- Compatible with most common low-voltage batteries (lead-acid & lithium)
- Supports 12 units working in parallel at most
- Max charging current up to 120A
- IP54 design to ensure the inverter can work under various environmental conditions
- LCD screen, safely interacitve design between users and inverters
- Monitoring via app by WiFi; easy for cooperating with BMS
- Smart fan cooling design

	SRP-6KRS-F1
Battery Input	
Battery Type	Li-Ion/Lead-acid
Battery Voltage	48Vdc
Inverter Output	
Nominal Power(W)	6000
Nominal Apparent Power (VA)	6000
Parallel Capacity	Yes, 12 units maximum
AC Voltage Regulation (Battery Mode)	230Vac ± 5% @50/60Hz
Surge Power (VA)	12000
Efficiency (peak)	93%
Waveform	Pure sine wave
Transfer Time	10ms (for personal computers), 15ms (for home appliances)
Solar Charger	
Max. PV Array Power (W)	6000
MPPT Range @ Operating Voltage	75Vdc-450Vdc
Number of Independent MPP Trackers	1
Number of Strings Per MPPT	1
Max. Input Current Per MPPT (A)	27
Max. PV Array Open Circuit Voltage (V)	500Vdc
Max. Solar Charge Current (A)	80
AC Charger	
Max. AC Charge Current(A)	120
AC Input Voltage (V)	230Vac
Voltage Range (V)	170-280Vac (For Personal Computers); 90-280 Vac (For Home Appliances)
Frequency Range(Hz)	50/60
General	
User Interface	APP+LCD Display
Communication	RS232, Dry-contact,Wi-Fi, RS485CAN
Ingress Protection Rating	IP54
Dimension (W*H*D mm)	325*440*115
Weight (kg)	13
Relative Humidity	5% ~ 95%
Max. Operating Altitude (m)	4000(>2000m derating)
Operating Temperature(°C)	0~50
Storage Temperature(°C)	-15~60
Protection	
PV Reversed Polarity Protection	Yes
PV Over Voltage Protection	Yes
PV Over Current Protection	Yes
Battery Reversed Polarity Protection	Yes
Battery Over Voltage Protection	Yes
Battery Over Current Protection	Yes
AC Surge Protection	Type III,Type III
Output Over Current Protection	Yes
Output Short Circuit Protection	Yes
Output Over Voltage Protection	Yes

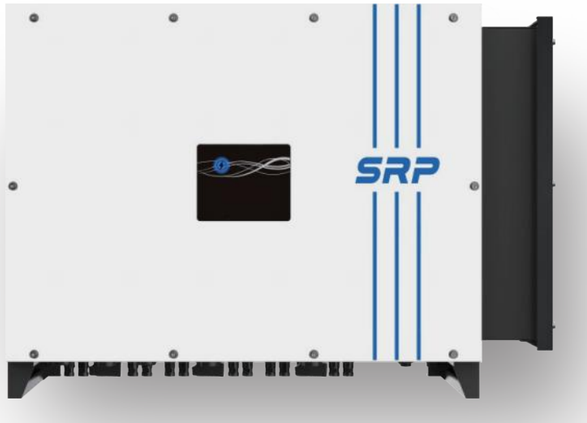
Grid-Tied Inverter-Single Phase 8K/10K

Product Features

- 150% PV configuration, 110% output overload
- AFCI fucntion optional
- Support various types of communication
- Remote upgrade and configuration; safety-related functions integrated
- IP65 protection
- Low noise without fan design

	SRP-8KRS-G1	SRP-10KRS-G1
PV String Input Data		
Max. Array Input Power (W)	12000	15000
Max. DC Input Voltage (V)	550	550
Nominal DC Input Voltage (V)	360	360
Start-up Voltage (V)	90	90
MPPT Voltage Range (V)	70-540	70-540
Max. Input Current per MPPT (A)	2*15/20	2*15/20
Max. Short-circuit Current per MPPT (A)	2*20/26	2*20/26
No. of MPPT	2	2
No. of Strings per MPPT	2+1	2+1
AC Output Data		
Nominal Ouput Active Power (W)	8000	10000
Nominal Output Apparent Power (VA)	8000	10000
Max. Ouput Active Power (W)	8800	10000
Max. Output Apparent Power (VA)	8800	10000
Nominal Output Voltage (V)	220 / 230, L + N + PE	
Output Voltage Range (V)	160-300 (Adjustable)	160-300 (Adjustable)
Nominal Output Frequency (Hz)	50/60	50/60
Output Frequency Range (Hz)	45-65 (Adjustable)	45-65 (Adjustable)
Max. Output Current (A)	40	45.5
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)	
THDi	<3%	<3%
Efficiency		
Max. Efficiency	98.20%	98.20%
Europ Efficiency	97.50%	97.60%
Protection		
PV Reversed Polarity Protection	Yes	Yes
PV Over Voltage Protection	Yes	Yes
PV Over Current Protection	Yes	Yes
DC Switch	Yes	Yes
Anti-islanding Protection	Yes	Yes
DC Surge Protection	Type III	Type III
AC Surge Protection	Type III	Type III
Insulation Resistor Detector	Yes	Yes
GFCI	Yes	Yes
Output Over Current Protection	Yes	Yes
Output Short Circuit Protection	Yes	Yes
Ouput Over Voltage Protection	Yes	Yes
AFCI	Optional	Optional
General		
Operating Temperature Range (°C)	-25~60 (>45°C derating)	
Relative Humidity	0~100%	
Max. Operating Altitude (m)	4000 (>2000m derating)	
Cooling Method	Natural Cooling	
User Interface	Wireless & APP+LED, LCD (optional)	
Communication	Optional: WiFi/GPRS/4G/LAN/RS485	
Weight (kg)	16	16
Dimension (W*H*D mm)	400*450*170	400*450*170
Topology	Transformerless	Transformerless
Self-consumption at Night (W)	<1	<1
Ingress Protection Rating	IP65	IP65
Mounting Method	Wall Bracket	Wall Bracket

Grid-Tied Inverter-Three Phase 100K~125K



Product Features

- 150% PV configuration, 110% output overload
- Max 9 MPPTs design
- Integrated I/V scanning, support AFCI and PID Recovery
- IP66 protection, C5 anti-corrosion optional
- Remote upgrade and configuration; safety-related functions integrated

	SRP-100KCT-G1	SRP-110KCT-G1	SRP-125KCT-G1
PV String Input Data			
Max. Array Input Power (kW)	150	165	187.5
Max. DC Input Voltage (V)		1100	
Nominal DC Input Voltage (V)		620	
Start-up Voltage (V)		250	
MPPT Voltage Range (V)		200-1000	
Max. Input Current per MPPT (A)	3*40/5*32	3*40/6*32	
Max. Short-circuit Current per MPPT (A)	3*50/5*45	3*50/6*45	
No. of MPPT	8	9	
No. of Strings per MPPT		2	
AC Output Data			
Nominal Ouput Active Power (kW)	100	110	125
Nominal Output Apparent Power (kVA)	100	110	125
Max. Ouput Active Power (kW)	110	121	137.5
Max. Output Apparent Power (kVA)	110	121	137.5
Nominal Output Voltage (V)		400Vac, 3L+N+PE	
Nominal Output Frequency (Hz)		50/60	
Output Frequency Range (Hz)		45~65 (Adjustable)	
Max. Output Current (A)	168.8	187	167.3
Power Factor		~1 (Adjustable from 0.8 leading to 0.8 lagging)	
THDi	<3%	<3%	<3%
Efficiency			
Max. Efficiency	98.50%	98.60%	98.80%
Europ Efficiency	98.00%	98.20%	98.40%
Protection			
PV Reversed Polarity Protection		Yes	
Residual Current Monitor		Yes	
PV Over Voltage Protection		Yes	
PV Over Current Protection		Yes	
AFCI		Optional	
DC Switch		Yes	
PID Recovery		Optional	
PV String Monitoring		Optional	
Anti-islanding Protection		Yes	
DC/AC Surge Protection		Type II, Type II	
Insulation Resistor Detector		Yes	
GFCI		Yes	
Output Over Current Protection		Yes	
Output Short Circuit Protection		Yes	
Ouput Over Voltage Protection		Yes	
Night Load Consumption Monitoring		Optional	
General			
Operating Temperature Range (°C)		-25~60 (>45°C derating)	
Relative Humidity		0~100%	
Max. Operating Altitude (m)		4000 (>2000m derating)	
Cooling Method	Fan Cooling	Fan Cooling	Fan Cooling
User Interface		Wireless & APP+LED, LCD (optional)	
Communication		RS485, Optional: WiFi/GPRS/4G/LAN	
Weight (kg)		92	
Dimension (W*H*D mm)		850*670*356	
Topology		Transformerless	
Self-consumption at Night (W)		<10	
Ingress Protection Rating		IP66	
Mounting Method		Wall Bracket	

Portable Off-Grid Inverter
Eagle 700,Eagle 1200

Portable Device	Eagle 700	Eagle 1200
Input Data		
Battery Type	Li-ion	Li-ion
Nominal Battery Voltage (V)	24	24
Battery Voltage Range (V)	22-28.8	22-28.8
Max. Charge/Discharge Current (A)	40(Grid)+20(PV) /30	40(Grid)+20(PV) /52
Nominal PV Input Voltage (V)	27	27
PV Input Voltage Range (V)	24-32	24-32
Nominal PV Input Current (A)	15	15
Max. PV Input Current (A)	20	20
Nominal PV Input Power (W)	405	405
Max.PV Input Power (W)	500	500
Nominal Input AC Voltage From The Grid (V)	160-276 @50Hz/60Hz	160-276 @50Hz/60Hz
Max. AC Input Power From The Grid (W)	600	900
Max. AC Input Current From The Grid (A)	6	13
Output Data		
USB-C (2 ports)	5V⎓3A, 9V⎓3A, 12V⎓2.25A, 3.3~11V⎓3A, 20V⎓2.25A, Max. output power 45W per port	5V⎓3A, 9V⎓3A, 12V⎓2.25A, 3.3~11V⎓3A, 20V⎓2.25A, Max. output power 45W per port
USB-A QC (2 ports)	5V=3A,9V=2A,12V=1.5A(Nominal),Max. output power 18W per port	5V=3A,9V=2A,12V=1.5A(Nominal),Max. output power 18W per port
AC Output (2 ports)	Pure Sine Wave,700W, 216Vac-224Vac@50Hz/60Hz	Pure Sine Wave,1200W, 216Vac-224Vac@50Hz/60Hz
UPS Mode		
Transfer Time	10ms	
General		
Operating Temperature Range (°C)	-20~50	
Storage Temperature Range (°C)	-20~60	
User Interface	Button+LED	
Weight (kg)	2.1	2.6
Dimension (W*H*D mm)	275*93*196	330*93*196

Product Features

- Particularly wonderful outlook and relatively convenient design
- Compatible with common 24V lithium batteries
- Support maximum 800W solar input to charge the battery or offer load power
- Bidirectional DC-AC usages (provide AC power to AC loads or charge the battery from the grid)
- Highly integrated USB-A, USB-C, as well as AC ports
- Support UPS function (transfer time <80ms)
- Thoughtful design with anti-slip rubber pads on the bottom

The Portable Off-Grid Inverter can be used with
Multi-purpose LFP Battery

Residential Rack-mounted Battery
SRP-5000U

Product Features

High Security
- High safety LFP cell selected, UL9540A certificated
- Active protection design, ensure battery running under safety condition

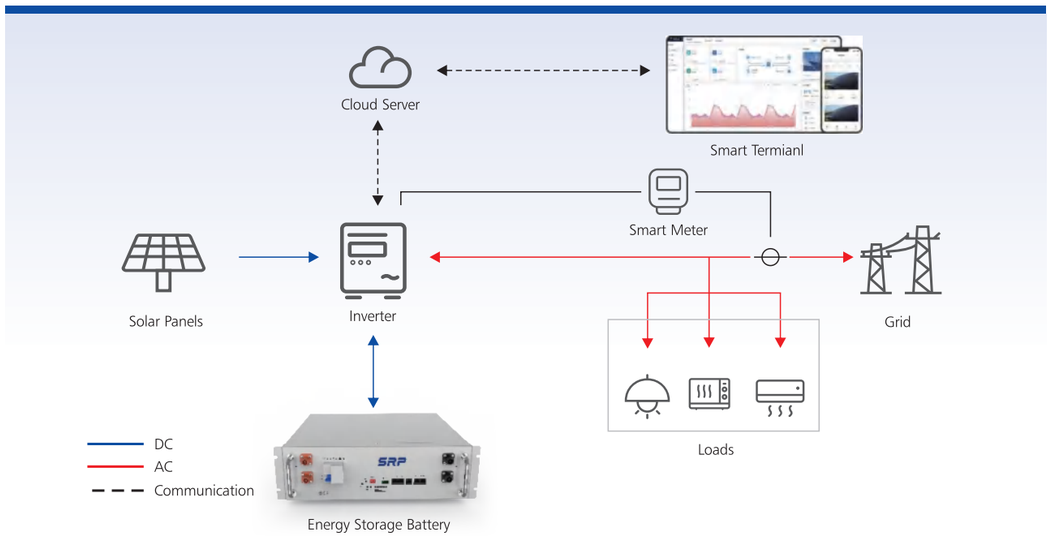
Efficiency
- Vertical integration BMS & Inverter protocol, one platform to see system message
- <430mm depth and light weight, more compact and space saved
- KISS principle, plug & play

Economic
- >6000 cycles with >80% EOL, achieve more benefits;
- LCOE lower 2~8%, shorter payback period

SRP-5000U	
Contents	**Technical Data**
Product Type	SRP-5000U
System Energy (Wh)*	5120
Usable Energy (Wh)*	5000
DOD Recommended	95% On Grid, 80% Off Grid
Cell Type	LFP
Nominal Voltage (V)	51.2
Working Voltage Range (V)	48~56.8
Nominal Dis-/ Charge Current (A)**	60
Max. Charge Current (A)	95
Peak Current	100A@3s
Nominal Power (W)**	3000
Max. Power (W)	5000
Peak Power (only discharge)	6000W@3s
Max. Connection No. in Parallel	16
Communication	CAN, RS 485
Dimension (W*H*D mm)	442*133*430
Weight (kg)	<46
Ingress Protection Rating	IP20
Relative Humidity	0~95%RH (no condensed water)
Max. Operating Altitude (m)	<4000m (>2000m power derating)
Cycle Life	6000, >80% EOL
Mounted Method	Wall Mounted, bracket, cabinet

*:Test conditions, cell Voltage 2.5~3.65V, 0.5C charge & discharge at +25±2 °C for battery system at beginning life. System Usable Energy may vary with different Inverter.

**: Nominal Dis-/Charge Current and power derating will occur related to Temperature and SOC.



Residential Energy Storage System

Residential Stacked Battery SRP-5000L

Product Features

Safety

- High safety LFP cell selected, UL9540A certificated
- Active protection design, ensure battery running under safety condition
- Ip65 and C4-H protection case

Efficiency

- Vertical integration BMS & Inverter protocol, one platform to see system message
- Compact and light weight, save installation cost
- KISS principle, plug & play

Economic

- >6000 cycles with >80% EOL, achieve more benefits
- LCOE lower 2~8%, shorter payback period

SRP-5000L	
Contents	**Technical Data**
Product Type	SRP-5000L
System Energy (Wh)*	5120
Usable Energy (Wh)*	5000
DOD Recommended	95% On Grid, 80% Off Grid
Cell Type	LFP
Nominal Voltage (V)	51.2
Working Voltage Range (V)	48~56.8
Nominal Dis-/ Charge Current (A)**	60
Max. Charge Current (A)	95
Peak Current	100A@3s
Nominal Power (W)**	3000
Max. Power (W)	5000
Peak Power (only discharge)	6000W@3s
Max. Connection No. in Parallel	4
Communication	CAN, RS 485
Dimension (W*H*D mm)	670*370*150
Weight (kg)	<52
Ingress Protection Rating	IP65
Relative Humidity	0~95%RH (no condensed water)
Max. Operating Altitude (m)	<4000m (>2000m power derating)
Cycle Life	6000, >80% EOL
Mounted Method	Wall mounted

*:Test conditions, cell Voltage 2.5~3.65V, 0.5C charge & discharge at +25±2 °C for battery system at beginning life. System Usable Energy may vary with different Inverter.

**: Nominal Dis-/Charge Current and power derating will occur related to Temperature and SOC.

Residential High Voltage Battery
SRP-5000D

SRP Residential High Voltage Battery Series with IP65 protection level offers multiple energy options through an expandable modular design. The stackable auto-configuration modules make the system easier to install and maintain. It offers a broad range of energy storage solutions that cater to diverse project requirements, from self-consumption optimization to backup usage.

Product Features

Safety

- High safety LFP cell selected, UL9540A certificated
- Active protection design, ensure battery running under safety condition
- Built-in isolated power converter

Efficiency

- Vertical integration BMS & Inverter protocol, service more efficient
- Compact and light weight, save installation cost
- KISS principle, plug & play
- >6000 cycles with >80% EOL, achieve more benefits

Flexibility

- Support mixed use of new and old batteries
- Flexible module design, supports capacity expansion unconditionally

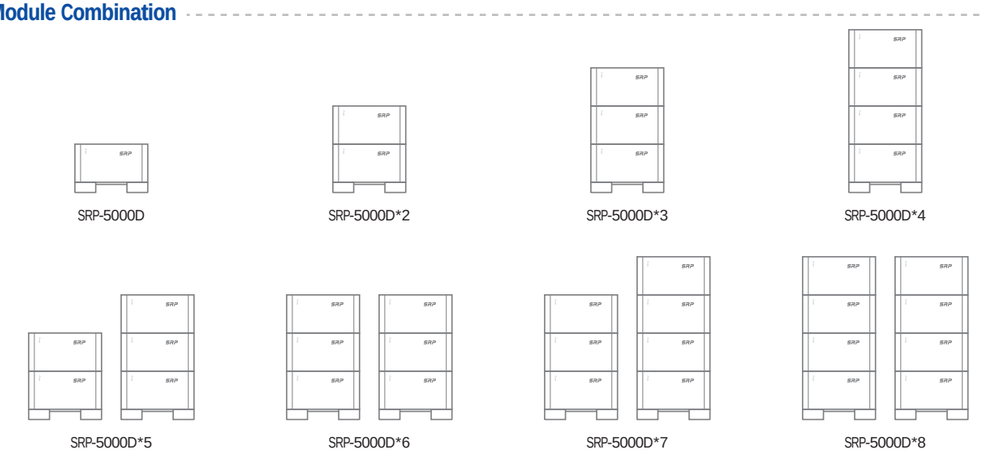
Contents	Technical Data							
Product Type	SRP-5000D	SRP-5000D*2	SRP-5000D*3	SRP-5000D*4	SRP-5000D*5	SRP-5000D*6	SRP-5000D*7	SRP-5000D*8
Module Type	SRP-5000D-M0							
Module Number	1	2	3	4	5	6	7	8
System Energy (Wh)*	5120	10240	15360	20480	25600	30720	35840	40960
Usable Energy (Wh)*	5000	10000	15000	20000	25000	30000	35000	40000
DOD Recommended	95% On Grid, 80% Off Grid							
System Nominal Voltage (V)	400							
Output Voltage Range (V)	350~435							
Nominal Output Current (A)**	7.5	15	22.5	28	37.5	45	50	50
Max. Output Current (A)	8.8	17.5	26.3	35	43.4	52.5	55	55
Peak Output Current	15A,10s	30A,10s	45A,10s	60A,10s	60A,10s	60A,10s	60A,10s	60A,10s
Nominal Power (kW)**	3	6	9	12	15	18	20	20
Max. Power (kW)	3.5	7	10.5	14	17.5	21	22	22
Peak Power (kW)	6	12	18	24	24	24	24	24
Communication	CAN,RS485							
Weight (kg)	65	115	165	215	315	345	395	445
Ingress Protection Rating	IP65							
Relative Humidity	<95% (no condensed water)							
Altitude Limited (m)	<4000m (>2000m power derating)							
Environment Class	C4-H							
Install Method	Grounded, wall mounted							
Cycle Life	6000							
Cycle Efficiency	95.60%							

SRP-5000D-M0	
Module Name	SRP-5000D-M0
System Energy (Wh)	5120
Usable Energy (Wh)	5000
Dimension (W*H*Dmm)	680*376*175
Weight (kg)	50
Ingress Protection Rating	IP65

*:Test conditions, cell Voltage 2.5~3.65V, 0.5C charge & discharge at +25±2 °C for battery system at beginning life. System Usable Energy may vary with different Inverter.

**: Nominal Dis-/Charge Current and power derating will occur related to Temperature and SOC.

Module Combination



Multi-purpose LFP Battery

	LFP12-100	LFP12-200	LFP12-400	LFP24-100	LFP24-200	LFP48-100
Nominal Capacity (Ah)	100	200	400	100	200	100
Nominal Voltage (V)	12.8	12.8	12.8	25.6	25.6	51.2
Charging Temperature Range (℃)	0～45	0～45	0～45	0～45	0～45	0～45
Discharg Temperature Range (℃)	-20～55	-20～55	-20～55	-20～55	-20～55	-20～55
Max. Charging Current (A)	50	50	50	50	50	50
Max. Discharge Current (A)	50	100	100	50	100	50
Charge Upper Limit Voltage (V)	13.8～14.4	13.8～14.4	13.8～14.4	28.0～28.8	28.0～28.8	56.0～57.6
Discharg Cut-off Voltage (V)	10	10	10	20	20	40
Weight (kg)	～13	～21.5	～38.5	～22	～38.5	～38.5
Dimension (W*D*H mm)	339*185*218	502*186*243	522*238*223	502*186*243	522*238*223	522*238*223
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65
Communication	Optional	Optional	Optional	Optional	Optional	Optional
Max. Connection No. in Series	4S	4S	4S	2S	2S	/
Max. Connection No. in Parallel	10P	10P	10P	10P	10P	10P

Product Features

High Security

- High safety phosphate lithium cell
- Intelligent BMS, prevents overcharge and overdischarge, overtemperature, etc.

Long-life

- Even after discharging it completely more than 2000 cycles,and 80% of the capacity remains

Multi-purpose

- Applied in areas with poor power infrastructure, off-grid application, UPS/telecom, outdoor portable applications, RVs, yachts, camping, etc.

Hybrid - ESS - C&I -30

Product Features

High Security

- High density phosphate lithium cell
- BMS Two-levels architecture design, combined with EMS platform, is more intelligent and efficient in monitoring product operation status
- Industrial grade outdoor cabinet, paired with intelligent air conditioning, can handle various usage environments

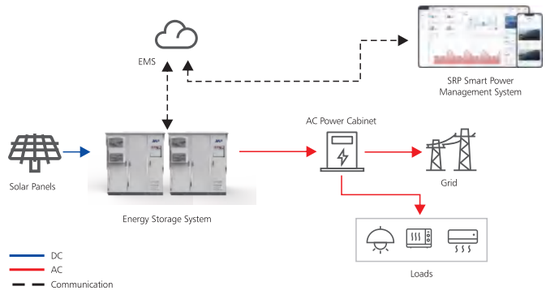
High Integration

- The machine covers an area of about 1.1m²
- Modular design for more flexible capacity matching

Convenient Installation

- Whole machine transportation, saving installation time and cost
- Hybrid inverter integration, saving inverter and battery debugging and assembly costs
- Built in power distribution circuit, making customers more worry free

Topology diagram of system scheme



	SRP-C&I-30kW-60KWh-H	SRP-C&1-30kW-70KWh-H	SRP-C&I-30kW-76KWh-H
DC Parameters			
Series & Parallels(Cell)	1P&24S	1P&24S	1P&24S
Series & Parallels(module)	1P&8S	1P&9S	1P&10S
Nominal Voltage (V)	614.4	691.2	768
Nominal Capacity (Ah)	100	100	100
System Energy (kWh)	61.4	69.1	76.8
Usable Energy(kWh)	58	65	73
Nominal Ch/Discharge Current(A)	30	30	30
Max. Discharge Current(A)	50	50	50
Max. Charge Current(A)	50	50	50
Operating Voltage Range(V)	537～681	604.8～766.8	672～852
MPPT Voltage Range (V)	350～900		
Max. Input Current per MPPT (A)	26/26/26		
No. of MPPT	3		
No. of Strings per MPPT	2		
AC Parameters			
Nominal Ouput Active Power (W)	30000		
Nominal Output Apparent Power (VA)	30000		
Max. Output Apparent Power (VA)	33000		
Nominal Output Voltage (V)	380 / 400 / 415, 3L + N + PE		
Output Voltage Range (V)	277～520(Adjustable)		
Nominal Output Frequency (Hz)	50/60		
Output Frequency Range (Hz)	45～65(Ajustable)		
Max. Output Current (A)	43.5*3		
Power Factor	～1 (Adjustable from 0.8 leading to 0.8 lagging)		
THDi	<3%		
Back-up Output Data			
Nominal Output Apparent Power (VA)	30000		
Max. Output Apparent Power (VA)	33000		
Nominal Output Voltage (V)	230		
Nominal Output Frequency (Hz)	50/60		
Max. Output Current (A)	47.8*3		
Transfer Time (ms)	10(typ)/20(max)		
THDv @ Linear Load	<3% @100% R Load		
General Parameter			
Ingress Protection Rating	IP54 (out door)/ IP20(in door)		
Relative Humidity	0～95%(No condensation)		
Operating Temperature (℃)	-25～65		
Max. Operating Altitude (m)	3000		
Communication	RS485/RS232/Wi-Fi		
Dimension (W*D*H mm)	800*800*2200	800*800*2200	800*800*2200
Max. Weight (kg)	1120	1200	1270

PCS - ESS - C&I -100

Product Features

High Security

- High density phosphate lithium cell
- BMS Two-levels architecture design, combined with EMS platform is more intelligent and efficient in monitoring product operation status
- Industrial grade outdoor cabinet, paired with intelligent air conditioning, can handle various usage environments

High Integration

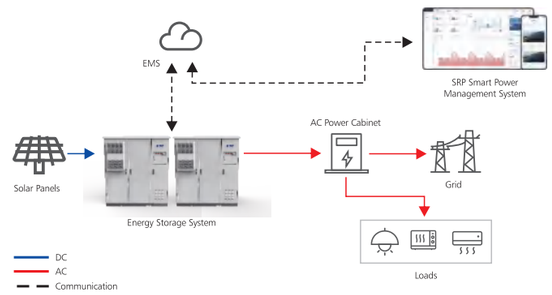
- The machine covers an area of about 2.3m²
- Modular design for more flexible capacity matching

Convenient Installation

- Whole machine transportation, saving installation time and cost
- Integrated inverter integration, saving inverter and battery debugging and assembly costs
- Built in power distribution circuit, making customers more worry free

	SRP-C&I-100kW-200KWh-P	SRP-C&I-100kW-215KWh-P
DC Parameters		
Series & Parallels（Cell)	1P&16S	1P&16S
Series & Parallels(Module)	1P&14S	1P&15S
Nominal Voltage (V)	716.8	768
Nominal Capacity (Ah)	280	280
Nominal Ch/Discharge Current(A)	75	75
System Energy (kWh)	200.7	215
Usable Energy(kWh)	185(95%DOD)	200(95%DOD)
Max. Discharge Current(A)	140	140
Max. Charge Current(A)	140	140
Operating Voltage Range(V)	627～795	672～852
AC Parameters		
Nominal Output Voltage (VAc)	400±10% 3L+(N)	
Nominal Output Frequency (Hz)	50/60±5（self-adaption）	
Power Factor	0.99	
Power Factor Adjustment Range	1.0 lag to 1.0 lead	
THDi	⩽3%	
Nominal Output Power （kW)	100	100
Max. Output Power （kW)	110	110
Nominal Output Current (A)	140	140
Max. Discharge Efficiency	⩾98.2%	
Overload Capacity	110.0%	
General Parameter		
Ingress Protection Rating	IP54(out door)/IP20(in door)	
Relative Humidity	0～95%(No condensation)	
Operating Temperature (°C)	-25～65	
Max. Operating Altitude (m)	2000	
Communication	RS485/CAN	
Dimension (W*D*H mm)	1950*1100*2200	1950*1100*2200
Max. Weight (kg)	2100	2200

Topology diagram of system scheme



Intelligent Energy Management System

Energy Storage System

EMS Gateway

EMS:

Comprehensive Battery System Monitoring

- Monitoring data of the entire device
- Monitoring data from various dimensions
- Supporting data backup and recovery
- Supporting collaborative control of multiple battery systems

Supporting Income Calculation and Analysis

- Multiple types of income calculation models
- Multidimensional income statistical models
- Multiple rate of return prediction models

Intelligent Analysis

- Energy consumption analysis, cost analysis, energy conservation analysis, and efficiency analysis
- Based on event analysis, provide warnings for maintenance or replacement of accessories
- Potential danger warnings to improve operational efficiency

Convenient and Traceable Operation and Maintenance

- Operate and maintain by executing network commands
- Achieve high efficiency through one click allocation and closed-loop
- View work status on both PC and mobile devices

Cycle Life Detection

- Cycle data storage interval can be accurate to seconds
- Battery cycle data analysis

Accident Alarm and Recall

- Real time monitoring of data and WAN faults
- Provide solutions for more effective handling