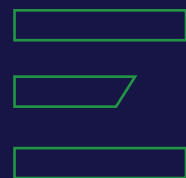


STORE TODAY POWER TOMORROW



RESS

RAYSHINE ENERGY STORAGE SOLUTION



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ABOUT US

Behind every power cut is a moment of anxiety. Behind every oversized electricity bill is a month of worry. Behind every diesel generator running through the night is an expense that never ends. These are not small problems. They are the daily reality of millions of Indian homes and businesses — and they were the reason Rayshine Green Energy by Unique Sun Group was born.

There is a moment at sunset, when the solar panels go quiet and the grid becomes unreliable, that every Indian family knows too well. That moment — the flicker before the generator starts, the scramble for the torch, the lost hour of work — is what we built RESS to eliminate.

We started with a simple question: why do Indian families still lose power when India is producing more solar energy than at any point in its history? The answer was not a policy problem or a generation problem. It was a storage problem. And storage problems have engineering solutions.

In the ancient Indian tradition, the sun has always been the source of all life. Today, it is also the source of India's clean energy future. But sunlight is fleeting — it peaks at noon and disappears at dusk. Every megawatt that a solar panel generates during the day but cannot store is a megawatt wasted. We built RESS to hold that sunlight captive — and return it to you precisely when you need it most.

We were founded in Surat, Gujarat — India's solar heartland — with a single conviction: that every home and factory in India deserves reliable, affordable, stored energy. We saw a country generating more solar power than ever before, yet still depending on diesel generators when the sun went down. That gap — between generation and reliability — is exactly where RESS was born.

We founded Rayshine on a belief that sounds simple but is surprisingly rare in the energy industry: that customers deserve the truth. The truth about how long a battery will last. The truth about what it will cost to maintain. The truth about what happens in year eight when capacity starts to fade. We built RESS to be transparent in every dimension — open specifications, honest pricing, and a warranty we fully intend to honour. We do not promise the most. We promise exactly what we deliver.

We weave together the finest lithium iron phosphate cells from the world's best manufacturers. Our own battery management intelligence, and a decade-long service commitment into every RESS unit we build. Every cell is sorted and graded before assembly. Every pack is tested through a charge-discharge cycle before it leaves our facility. Every customer receives a product that has already proven itself before it reaches their wall.

We are not in the battery business. We are in the business of eliminating energy anxiety — permanently, affordably, and with complete transparency. One product range. One promise. One mission: to give every Indian home and business complete energy security, today, and for the next upcoming years.

We are a team of engineers, strategists, and energy believers. We do not oversell. We do not overclaim. We deliver exactly what we promise — and then a little more. Our team has studied the best BESS systems in the world for utility-scale reference architectures — and we know what world-class looks like. RESS is built to that standard, at a price that makes sense for India.

We believe clean energy is not a privilege. It is a right that technology can now deliver to every single Indian. That belief drives every design decision we make — from the cell chemistry we choose, to the BMS firmware we write, to the warranty terms we stand behind. No fine print. No hidden costs. No excuses.

We are a team with an enormous belief: that stored clean energy will be the foundation of India's next great chapter. India has enough sunlight to power itself many times over. What it needed was a company willing to build the storage layer — intelligently, honestly, and with the patience to do it right. Rayshine is that company.

We started in Surat. We are building for India. And We are ready for the World.



Vision

To become the world's most trusted brand in energy storage - giving every home, business, and factory on earth the power to store clean energy and use it on their own terms.



Mission

To deliver world-class energy storage with products you can trust, service you can always count on, and a promise to always put the customer first - making clean energy affordable for every consumer around the world.



Core Values

Punctuality

We deliver before the deadline - because your time is your most valuable asset.

Momentum

We do not follow growth curves - we redefine them.

Integrity

We stay honest - with customers, ourselves, and in the work we deliver.

Conviction

We lead with the belief that clean energy is not a choice - it is a responsibility.

Authenticity

What you see is what you get - no hidden costs, no vague terms, no excuses.



RESS R&D STRENGTH

At RESS (Rayshine Energy Storage Solution), innovation is at the core of everything we build. Our dedicated R&D team continuously works on advancing Battery Energy Storage Systems (BESS) through rigorous testing, system optimization, and technology enhancement. Focused on safety, performance, reliability, and scalability, our research efforts ensure that every RESS solution meets the evolving demands of commercial, industrial, and utility-scale energy applications.

By integrating advanced battery technologies, intelligent energy management systems, and global industry best practices, RESS develops future-ready energy storage solutions that deliver higher efficiency, longer lifecycle, and superior operational performance. Our commitment to continuous innovation enables us to create reliable storage systems that support a cleaner, smarter, and more sustainable energy future.

R&D HIGHLIGHTS:

- Dedicated R&D Professionals
- Advanced BESS Design & Engineering
- Battery Performance & Lifecycle Optimization
- Safety & Reliability Testing
- Intelligent Energy Management System (EMS) Integration
- Product Validation & Quality Assurance
- Continuous Technology Upgradation
- Industry Standards & Compliance Focus



THE POWER OF ALL-IN-ONE

We streamline efficiency by managing the entire lifecycle on a single campus, covering everything from PACK assembly to complete system integration.

We deliver unmatched product reliability and uniformity. Our versatile integration and PACK lines seamlessly accommodate bespoke client needs, supported by our dedicated end-to-end service.

END - TO - END PROJECT SERVICE

Requirement Definition:

Sales and technical teams work together to define a comprehensive requirements list - covering technical specifications, grid standards, and applicable subsidy policies.

Solution Design:

3D site simulations and ROI projections are carried out to develop a fully tailored system solution for each project.

Site Validation:

On-ground surveys by RESS engineers assess terrain, solar irradiance, and grid interconnection points to validate feasibility.

Delivery Assurance:

FMEA-based risk management is embedded across design, production, and packaging stages to ensure zero-compromise delivery.

Residential Series

Your home's silent guardian - that ends energy anxiety forever, keeps every light on through every power cut, and pays for itself while you sleep.



Residential Series

Model: RESS1.92kWh_19.2V



- **Integrated inverter, Battery, and BMS in one compact unit**

- **Stackable to 9.6kWh - supports mixing old and new batteries**

- **1500W AC charging power for fast charging**

- **1500W off-grid output for reliable home backup and outdoor power needs**

Residential Series

Model: RESS1.92kWh_19.2V

Specification

Capacity	100Ah
Scalability	Max 32Units in parallel (max 9.6kWh)
Nominal Voltage	19.2V
Operating Voltage	16.8V – 21.6V
Nominal Energy	1.92kWh
Charge Current - Max Continuous	100A
Charge Current – Peak	120A
Discharge Current – Max Continuous	100A
Discharge Current – Peak	150A
Recommended Depth of Discharge	80%
Dimension	480 × 249 × 260 mm (W x H x D)
Weight Approximate	26kg
LED Indicator	LED(SOC, working, protecting) & Buzzer
IP Rating of Enclosure	IP65
Operating Temperature	-20 ~ +55 -With Heating
Storage Temperature	-10°C to +45°C
Relative Humidity	0 ~ 95% (non-condensing)
Altitude	≤ 3000
Cycle Life	≥ 6000 (25 ± 2°C 0.5P 100%DOD 70%EOL)
Installation	Wall-Mounted / Stack-Mounted
Communication	CAN 2.0 / RS485 / Bluetooth + App
Warranty Period	5Years
Energy Throughput	3MWh
Battery Chemistry	LFP (LiFePO4)

Residential Series

Model: RESS2.56kWh_25.6V



■ User-Friendly

Concealed wall bracket and easy to install & Ultra-thin body for easy handling

■ Ultra Safety

Built safe. Built smart. Advanced BMS protection that never sleeps.

■ Real-Time Monitoring

Intelligent BMS monitors every cell, every second — so you never have to.

■ Excellent Design

Up to 16 units in parallel

■ Higher Performance

Rapid charge and discharge ability (100A per unit) & Highest 95% DOD, much more usable energy

Residential Series

Model: RESS2.56kWh_25.6V

Specification

Capacity	100Ah
Scalability	Max 16Units in parallel (max 40.96kWh)
Nominal Voltage	25.6V
Operating Voltage	22.4 – 28.8V
Nominal Energy	2.56kWh
Charge Current – Max Continuous	100A
Charge Current – Peak	120A
Discharge Current – Max Continuous	100A
Discharge Current – Peak	150A
Recommended Depth of Discharge	80%
Dimension	400 x 175 x 380 mm (W x H x D)
Weight Approximate	29kg
LED Indicator	LED(SOC, working, protecting) & Buzzer
IP Rating of Enclosure	IP54
Operating Temperature	–20 ~ +55 -With Heating
Storage Temperature	–10°C to +45°C
Relative Humidity	0 ~ 95% (non-condensing)
Altitude	≤ 3000
Cycle Life	≥ 6000 (25 ± 2°C 0.5P 90%DOD 70%EOL)
Installation	Wall-Mounted / Stack-Mounted
Communication	CAN 2.0 / RS485
Warranty Period	5Years
Energy Throughput	4MWh
Battery Chemistry	LFP (LiFePO4)

Residential Series

Model: RESS5.12kWh_51.2V



■ Integrated PACK

Reduced Line Loss, enhanced energy density

■ Support Max.

1C charge, 1.2C discharge

■ Flexible Expansion

Max. 32 units in parallel

■ Advanced BMS

Intelligent cell balancing, Active fuse protection
Safeguard against thermal runaway, overvoltage, and overcurrent, etc.

■ Smart Control At Your Fingertips

Auto-networking, Quick Pairing, Local Monitoring, Automatic Warning

■ Operating Temperature

0~55°C Charge, -20°C~55°C Discharge

Residential Series

Model: RESS5.12kWh_51.2V

Specification

Capacity	100 Ah
Scalability	Max 32 pcs in parallel (Max. 64 pcs can parallel with CAN-Bridge)
Nominal Voltage	51.2 V
Operating Voltage	44.8 V – 57.6 V
Nominal Energy	5.12 kWh
Charge Current – Max Continuous	100 A
Charge Current – Peak	120 A (10 sec)
Discharge Current – Max Continuous	120 A
Discharge Current – Peak	150 A (10 sec)
Recommended Depth of Discharge	80% DoD
Dimension	370 × 548 × 140 mm (W × H × D) (Without hanging board)
Weight Approximate	41 kg
LED Indicator	LED (SOC, working, protecting) & Buzzer
IP Rating of Enclosure	IP21
Operating Temperature	Charge 0~55°C / Discharge -20°C~55°C
Storage Temperature	0~35°C
Relative Humidity	95% (non-condensing)
Altitude	≤ 3000m
Cycle Life	≥ 6000 (25°C±2°C, 70% EOL)
Installation	Wall-Mounted, Floor-Mounted, Stack-Mounted
Communication	CAN2.0, RS485, Bluetooth+APP
Warranty Period	5 years
Energy Throughput	8 MWh
Battery Chemistry	LiFePO ₄

Residential Series

Model: RESS10.24kWh_51.2V



■ Reliable

Built-in Intelligent BMS
Providing complete protection
Wide temperature range : -20°C to 55°C

■ Convenient

Battery module auto networking
(No DIP switch code) easy maintenance
Support RESS remotely monitoring and upgrade
Support inverters to form a stack all-in-one system

■ Safe & Smart

LFP Battery
Safety and long lifespan
High-energy density
Low Voltage safety connection

■ Flexible

Flat design, Wall-mounted with Wall Bracket
Floor Stand with removable base
Saving installation space

■ High Performance

Maximum support 1C charge and 1.25C discharge
5 years standard warranty
IP65

■ Eco-Friendly

Use environmental protection materials
Non-toxic, pollution-free

Residential Series

Model: RESS10.24kWh_51.2V

Specification

Capacity (Ah)	200
Built – in Circuit Breaker	125A 4P, 60Vdc
Scalability	Max. 32 pcs pack (Max 327kWh) in parallel
Nominal Voltage	51.2V
Operating Voltage	43.2 – 57.6 V
Nominal Energy	10.24 kWh
Usable Energy	9.2 kWh
Charge/Discharge Current – Recommend	Charge: 100 / Discharge: 100 (A)
Charge/Discharge Current – Max	Charge: 198 / Discharge: 240 (A)
Charge/Discharge Current – Peak (2mins, 25°C)	300 (A)
Recommend Depth of Discharge	90%
Dimension	600 × 830 × 200mm, (W × H × D) (Without hanging board)
Weight (Approximate)	107 kg
Master LED Indicator	LED (SOC: 20% ~ SOC100% and working state)
IP Rating of Enclosure	IP65
Operating Temperature	Charge: 1 – 55°C / Discharge: -20°C – 55°C
Humidity	5% – 95%
Altitude	≤ 3,000 m
Cycle Life	≥ 6000 (25°C±2°C, 0.5C / 0.5C, 90%DOD, 70%EOL)
Installation	Wall – Mounted, Floor – Mounted
Communication Port	CAN2.0, RS485
Warranty Period	5 years
Battery Chemistry	LiFePO ₄

Residential Series

Model: RESS16.07kWh_51.2V



- **0.5C charge/0.63C discharge**
Strong backup for high-load demands
-

- **314Ah Cells, 10000 Cycles**
Built for long-term reliability
-

- **Dual-Terminal Daisy-Chain Design**
No busbar needed, full flexibility
-

- **Built-in Breaker**
Less components, faster install
-

Residential Series

Model: RESS516.07kWh_51.2V

Specification

Capacity	314Ah
Scalability	Max 30Units in parallel (max 482.31kWh)
Nominal Voltage	51.2V
Operating Voltage	44.8 – 58.4V
Nominal Energy	16.07kWh
Charge Current – Max Continuous	157A
Charge Current – Peak	200A
Discharge Current – Max Continuous	200A
Discharge Current – Peak	250A
Recommended Depth of Discharge	80%
Round Trip Efficiency	≥ 95%
Dimension	≤ 470 × 895 × 245 mm (Without base)
Weight Approximate	128kg
LED Indicator	LED(SOC, working, protecting) & Buzzer
IP Rating of Enclosure	IP65
Operating Temperature Charge	0°C to +55°C
Operating Temperature Disharge	-20°C to +55°C
Storage Temperature :	-20°C to +35°C (≤12 months) / +35°C to +45°C (≤6 months)
Relative Humidity	0 ~ 95% (non-condensing)
Altitude	≤ 4000
Cycle Life	≥ 10,000 (25 ± 2°C 0.5P 80%DOD 70%EOL)
Installation	Wall-Mounted / Floor-Mounted
Communication	CAN
Warranty Period	5Years
Energy Throughput	40MWh
Battery Chemistry	LFP (LiFePO4)

C&I Series

Double the storage, double the freedom - that powers your entire industry from sunset to sunrise, with zero confusion.



C&I Series

Model: RESS52.25kWh_166.4V



■ Faster Response , Lower Cost

■ Superb Safety & Reliability

■ Friendly & Thoughtful Design

■ Smart Control & Monitoring

C&I Series

Model: RESS52.25kWh_166.4V

Specification

Type designation	RESS52.25kWh_166.4V
Battery Data	
Cell Capacity	314 Ah / 3.2V
Module Nominal Energy	52.25 kWh
Cell Type	LFP (LiFePO4)
Configuration	52S1P
Scalability	Max 5 Units in parallel (max 261.25 kWh)
Nominal Voltage	166.4V
Operating Voltage Range	135.2 ~ 187.2 V
Max. Continuous Charge	188 Max (A)
Discharge Current	198.5Max (A)
Max. Charge / Discharge Rate	0.5P
Depth of Discharge	80% ~ 100% (80% Recommended)
Charge Current	Recommended 157A
Charge Current	Max Continuous 157A
Discharge Current	Max Continuous 157A
Round-Trip Efficiency	≥95%
General Data	
Operation Temperature Range	-25 ~ +55 (°C)
Derating Temperature	45 (°C)
Storage Temperature	-20 ~ +45 (°C)(One Month); 0 ~ +35 (One Year)
Relative Humidity	10% ~ 95%
Max. Operating Altitude	4000 m (2000 derating)
Cooling Method Pack	Liquid Cooling; PCS: Smart Fan Cooling
User Interface	LED, WLAN + APP
Communication Protocol	Modbus TCP, Modbus RTU
Weight Approximate	<700kg
Dimension	800 × 1850 × 1250 mm (W × H × D)
Noise Emission	≤70 (dB)
Topology	Non-isolated
Ingress Protection Rating	IP54
Anti-Corrosion	C4 (C5 optional)
Configuration of Safety	Aerosol + water-based fire suppression, explosion-proof fan + explosion proof plates (optional)
Charge / Discharge Switching Time	<60ms
Efficiency	
Max. PCS Efficiency	98.6%
Max. System Efficiency	92.0%
Warranty	
	5 Years

C&I Series

Model: RESS104.50kWh_332.8V



■ Efficient Storage And Discharge

Intelligent BMS precise control, charging and discharging efficiency >95%, no electricity is wasted.

■ Peak-Valley Arbitrage

Low storage and high generation, reducing electricity costs.

■ Safe And Stable

Explosion-proof lithium battery + multi-layer protection, IP55 protection level, no fear of harsh environment.

■ Flexible And Versatile

Seamlessly access industrial and commercial electricity, support microgrids, ensure emergency power backup, and assist in the consumption of new energy, with easy scene switching.

C&I Series

Model: RESS104.50kWh_332.8V

Specification

Type designation		RESS104.50kWh_332.8V
Battery Data		
Cell Capacity	314 Ah / 3.2V	
Module Nominal Energy	104.50 kWh	
Cell Type LFP	(LiFePO4)	
Configuration	104S1P	
Scalability	Max 5 Units in parallel (max 522.5 kWh)	
Nominal Voltage	332.8 V	
Operating Voltage Range	291.2 ~ 379.6 (V)	
Max. Continuous Charge	157 Max(A)	
Discharge Current	157Max(A)	
Max. Charge / Discharge Rate	0.5C (0.5P)	
Depth of Discharge	80% ~ 100% (80% Recommended)	
Charge Current	Recommended 94.2 A (0.3C)	
Charge Current	Max Continuous 157A	
Discharge Current	Max Continuous 157A	
Round-Trip Efficiency	≥95%	
General Data		
Operation Temperature Range	-25 ~ +55 (°C)	
Derating Temperature	45(°C)	
Storage Temperature	-20 ~ +45 (°C)(One Month); 0 ~ +35 (One Year)	
Relative Humidity	10% ~ 95%	
Max. Operating Altitude	4000 m (2000 derating)	
Cooling Method Pack	Liquid Cooling; PCS: Smart Fan Cooling	
User Interface	LED, WLAN + APP	
Communication Protocol	Modbus TCP, Modbus RTU	
Weight Approximate	<1400kg	
Dimension	1050 × 1860 × 1290 mm (W × H × D)	
Noise Emission	≤70 (dB)	
Topology	Non-isolated	
Ingress Protection Rating	IP55	
Anti-Corrosion	C4 (C5 optional)	
Configuration of Safety	Aerosol + water-based fire suppression, explosion-proof fan + explosion-proof plates (optional)	
Charge / Discharge Switching Time	<60ms	
Efficiency		
Max. PCS Efficiency	98.0%	
Max. System Efficiency	92.0%	
Warranty		
	5 Years	

C&I Series

Model: RESS261.25kWh_832V



■ Ultimate Safety

Four-layer protection with flame-retardant cell coating and pressure relief - thermal propagation eliminated by design.

■ Zero-Hassle Maintenance

24/7 cloud monitoring, intelligent diagnostics, and plug-and-play modularity - deploy fast, maintain faster.

■ Built to Last

Active BMS cell balancing extends system life by 20% and cuts full lifecycle cost — engineered for the long run.

■ Any Application, Any Environment

Seamless on-grid/off-grid switching via STS - trusted in industrial parks, hospitals, data centers, and commercial buildings.

■ Universal Compatibility

Handles 100% three-phase unbalanced grids natively. IP55 + C4-H rated — built for India's harshest conditions.

C&I Series

Model: RESS261.25kWh_832V

Specification

Type designation		RESS261.25kWh_832V
System Parameters		
Battery Rated Capacity	314Ah / 3.2V	
Series and Parallel Configuration	260S1P	
Battery Chemistry	LFP (LiFePO4)	
DC Rated Voltage	832V	
Maximum Charge/Discharge Rate	0.5CC/0.5CD	
DC Rated Energy	261kWh	
Maximum Number of Units in Parallel	Grid-connected ≤20 units, Off-grid ≤8 units	
Enclosure Dimensions	1000 x 2450 x 1400 mm (W x H x D)	
Weight Approximate	2800kg	
Enclosure Rating	IP55	
Enclosure Corrosion Protection Rating	C4-H	
Operating Temperature Range	-30°C~55°C (>45°C Reduce the Limit)	
Overall Efficiency	90%	
Cooling Concept of Battery Chamber	Liquid Cooling	
Noise	≤75dB (≥1m)	
Altitude	≤3000m	
Relative Humidity	≤95%	
Fire Suppression		
Fire Suppression	Aerosol	
Leakage and Combustible Gas Detection	Supportable	
Smoke Sensor	Supportable	
Temperature Sensor	Supportable	
Breather Valve	Supportable	
Firefighting Water Inlet	Supportable	
Software		
Communication Interfaces	RS485, CAN, LAN	
Communication Protocols	CAN, RS485, Modbus TCP/IP	
AC (Grid-connected)		
Rated Output Power	125kW	
Maximum Output Power	137.5kW	
Rated Current	200A	
Rated Voltage	400Vac; 3W+N+PE	
Rated Frequency	50/60 Hz	
Power Factor	-1~+1	
AC (Off-grid)		
Output Voltage	400Vac; 3W+N+PE	
Rated Output Power	125Kw	
Maximum Output Power	137.5kW	
Maximum Alternating Current	200A	
Rated Frequency	50/60 Hz	
Warranty		
	5 Years	

C&I Series

Model: RESS522.50kWh_832V



■ **Compatible with ESA and on-grid inverters for easy microgrid setup**

■ **Built-in bypass switch to ensure system reliability**

■ **Built-in branch switches with no additional distribution cabinet required**

■ **Supports diesel generator integration with remote contactor control for seamless microgrid connection.**

■ **Outdoor-ready for stable operation across wide temperature conditions**

C&I Series

Model: RESS522.50kWh_832V

Specification

Type designation		RESS522.50kWh_832V
System Parameters		
Battery Rated Capacity	314Ah / 3.2V	
Series and Parallel Configuration	260S2P	
Battery Chemistry	LFP (LiFePO4)	
DC Rated Voltage	832V	
Maximum Charge/Discharge Rate	0.5CC/0.5CD	
DC Rated Energy	522kWh	
Maximum Number of Units in Parallel	20 units (max on-grid)10,449.92 kWh, 8 units (max off-grid)4,179.97kWh	
Dimensions	Battery Cabinet:1175 x1500 x 2500 mm (W x H x D) Combiner Cabinet: 1050 x 1100 x 1800 mm	
Weight Approximate	5600kg	
Enclosure Rating	IP55	
Enclosure Corrosion Protection Rating	C4-H	
Operating Temperature Range	-30°C~55°C (>45°C Reduce the Limit)	
Overall Efficiency	90%	
Cooling Concept of Battery Chamber	Liquid Cooling	
Noise	≤75dB (≥1m)	
Altitude	≤3000m	
Relative Humidity	≤95%	
Fire Suppression		
Fire Suppression	Aerosol	
Leakage and Combustible Gas Detection	Supportable	
Smoke Sensor	Supportable	
Temperature Sensor	Supportable	
Breather Valve	Supportable	
Firefighting Water Inlet	Supportable	
Software		
Communication Interfaces	RS485, CAN, LAN	
Communication Protocols	CAN, RS485, Modbus TCP/IP	
AC (Grid-connected)		
Maximum Output Power	275kW	
Rated Current	400 A	
Rated Voltage	400 V AC — 3W+N+PE	
Rated Frequency	50/60 Hz	
Power Factor	-1~+1	
AC (Off-grid)		
Output Voltage	400V AC — 3W+N+PE	
Rated Output Power	250 kW	
Maximum Output Power	275 kW	
Maximum Alternating Current	400A	
Rated Frequency	50/60 Hz	
Warranty		
	5 Years	

Utility Series

Liquid Cooled, IP55-rated, SCADA-connected utility certainty - engineered to outlast expectations, monitored before problems surface, and backed by a service team that treats every hour of your downtime as our personal failure.



Utility Series

Model: RESS5015kWh_1331.2V



■ High Safety

- UL9540A thermal forced spread test evaluation results are excellent, combustible gas monitoring, pressure relief and explosion protection meet NFPA68, NFPA69 specifications.
 - '2+2' fire prevention and control measures: The design adopts the modular built-in fire suppression & container firefighting system multiple configuration.
 - 'Insulation strength of the system is sufficient, and no breakdown or flashover in 5kVdc withstand test. The DC circuit is equipped with multi-level disconnections, which are multiple configuration.
 - Large scale fire impact assessment test results were good, no propagation to adjacent container.
-

■ Solid and reliable

- Adaptive design, module structure retention and internal force release optimization in the whole life cycle.
 - Excellent steel structure stability, 2 times lifting load, 10 times ballast performance recognized by classification society.
 - The overall structural stability meets IEEE693 high level earthquake tolerance.
 - Electrical components are tested for high temperature durability at 60°C, The liquid cooling pipeline is checked at 1000 hours of high temperature cycle.
-

■ Extremely long life

- Thermal management design adopts centralized cooling, multistage shunt, parallel flow channel, throttling control. The temperature difference of cells in the module is 2°C, and that is 3°C for container level;
- Protection is in place and reliable and durable. The protection grade of the enclosure is IP55, the anti-corrosion grade is C4/C5, and the high voltage module is IP67.

Utility Series

Model: RESS5015kWh_1331.2V

Specification

Product Name	RESS5015kWh_1331.2V	
Configuration	416S12P	
Communication protocol	CAN, RS485, TCP/IP	
Thermal management methods	Liquid cooling / heating	
Operating ambient temperature	-30°C ~ 55°C	
Altitude	De-rated over 3,000 meters	
Electrical Parameters		
Withstand voltage	4500Vdc, leakage current ≤5mA	
Short circuit current	130.56kA @12 strings	13.6kA @1 string
Rated energy	5015.9kWh	(100% DOD, 0.5P)
Rated voltage	1331.2V	
Operating voltage range	1040V~1500V	
Rated charge power	2500kW (0.5P)	According to power map
Rated discharge power	2500kW (0.5P)	According to power map
Short peak charging power	5000kW @60s	According to power map
Short peak discharging power	5000kW @60s	According to power map
Auxiliary power supply	400Vac, 50Hz, 3L/N/PE (EU) 480Vac, 60Hz, 3L/N/PE (US)	
DC side output form	1/2/12 outputs (optional)	
Mechanical Parameters		
Mass	~44.5t	
IP level	IP55	
Dimension	6058mm × 2438mm × 2896mm (L × W × H, 20HQ)	

UNIQUE
SUN GROUP


RAYSHINE

RESS
RAYSHINE ENERGY STORAGE SOLUTION

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