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Product Catalog

FOCUSING ON GLOBAL USERS WE PROVIDE QUALITY POWER STATION SOLUTIONS



RENESOLA (JIANGSU) CO. LTD

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ReneSola

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BIFACIAL MODULE WITH DUAL GLASS

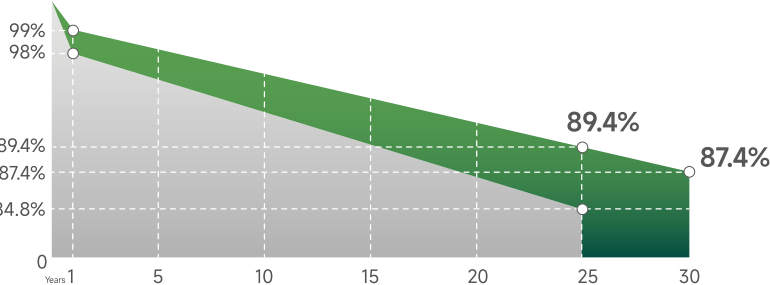
RS6-575~600NBG-E3

N-Type /Positive power tolerance of 0~+3%/Max module efficiency 23.23%

- Suitable for ground power plants and distributed projects
- Advanced module technology delivers superior module efficiency
 - Non destructive cutting ·MBB half-cut
- Excellent power generation performance
 - Excellent IAM and low irradiation performance ·Lower temperature coefficient
 - 0.40% linear Power decline
- High module quality ensures long-term reliability
 - Strict selected material ·Advanced technology ·Leading standard
- Enhanced Mechanical Load
 - Mechanical performance up to5400pa positive load and 2400pa negative load

Complete System
and IEC Product Certification

IEC 61215,IEC 61730 ISO9001:
2015:Quality Management System ISO14001:
2015:Environment Management System
ISO45001:2018:Occupational Health
and Safety Management System



30-Year Excess Linear Power Output Warranty

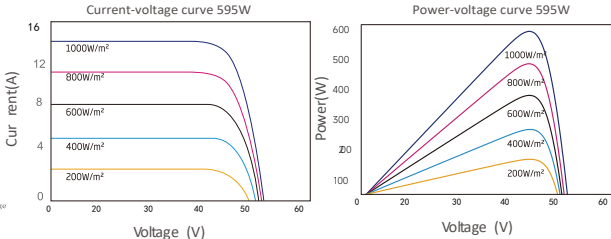
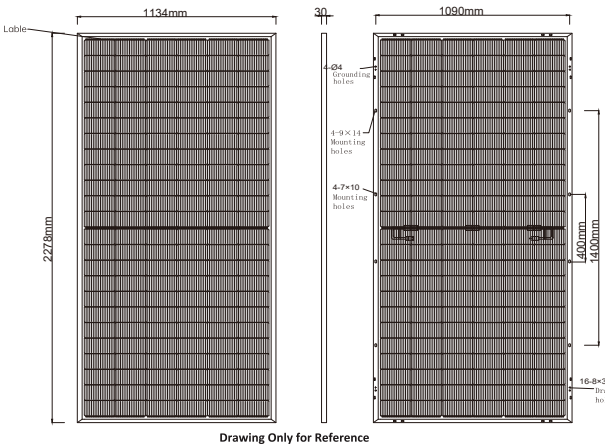


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RS6-575~600NBG-E3

BIFACIAL MODULE WITH DUAL GLASS



Electrical Characteristics STC	RS6-575NBG-E3	RS6-580NBG-E3	RS6-585NBG-E3	RS6-590NBG-E3	RS6-595NBG-E3	RS6-600NBG-E3
Maximum Power (Pmax)	575W	580W	585W	590W	595W	600W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	22.26%	22.45%	22.65%	22.84%	23.03%	23.23%
Maximum Power Current (Imp)	13.15A	13.22A	13.29A	13.36A	13.43A	13.50A
Maximum Power Voltage (Vmp)	43.73V	43.88V	44.02V	44.16V	44.30V	44.44V
Short Circuit Current (Isc)	13.89A	13.95A	14.01A	14.07A	14.13A	14.19A
Open Circuit Voltage (Voc)	52.81V	53.01V	53.21V	53.41V	53.61V	53.81V

Values at Standard Test Conditions STC (AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

Electrical Characteristics BNPI	RS6-575NBG-E3	RS6-580NBG-E3	RS6-585NBG-E3	RS6-590NBG-E3	RS6-595NBG-E3	RS6-600NBG-E3
Maximum Power (Pmax)	637W	643W	648W	654W	659W	665W
Maximum Power Current (Imp)	14.57A	14.65A	14.73A	14.80A	14.88A	14.96A
Maximum Power Voltage (Vmp)	43.73V	43.88V	44.02V	44.16V	44.30V	44.44V
Short Circuit Current (Isc)	15.39A	15.46A	15.52A	15.59A	15.66A	15.72A
Open Circuit Voltage (Voc)	52.81V	53.01V	53.21V	53.41V	53.61V	53.81V

BNPI: Irradiance: Front 1000W/m², Rear 135W/m², Ambient Temperature 25°C, AM=1.5, Power Bifaciality:80±5%.

Electrical Characteristics rear side power gain	RS6-575NBG-E3	RS6-580NBG-E3	RS6-585NBG-E3	RS6-590NBG-E3	RS6-595NBG-E3	RS6-600NBG-E3
Backside Power Gain	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%
Maximum Power (Pmax)	604W 633W	609W 638W	614W 644W	620W 649W	625W 655W	630W 660W
Maximum Power Current (Imp)	13.81A 14.46A	13.88A 14.54A	13.95A 14.62A	14.02A 14.70A	14.10A 14.77A	14.18A 14.85A
Maximum Power Voltage (Vmp)	43.73V 43.73V	43.88V 43.88V	44.02V 44.02V	44.16V 44.16V	44.30V 44.30V	44.44V 44.44V
Short Circuit Current (Isc)	14.58A 15.28A	14.65A 15.35A	14.71A 15.41A	14.77A 15.48A	14.84A 15.54A	14.90A 15.61A
Open Circuit Voltage (Voc)	52.81V 52.81V	53.01V 53.01V	53.21V 53.21V	53.41V 53.41V	53.61V 53.61V	53.81V 53.81V

Mechanical Characteristics	
Cell Type	Mono N-Type,144(6×24) Half-Cut cells
Glass	2mm+2mm,High Transmission,Low Iron,Semi-Tempered glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Dimension	2278x1134x30mm
Output Cable	4mm2(EU),+200mm,-300mm or Customized
Weight	31.7kg
Connector	MC4 Compatible

Packing Information	
Container	40' HQ
Pallets per Container	20
Pieces per Container	740

Characteristics	
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Nominal Operating Cell Temperature(NOCT)	43±2°C
Fire Performance	IEC Class C

Remark:Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

Maximum Ratings	
Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	30A



Note: Please read the safety and installation instructions before using this product
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BIFACIAL MODULE WITH DUAL GLASS

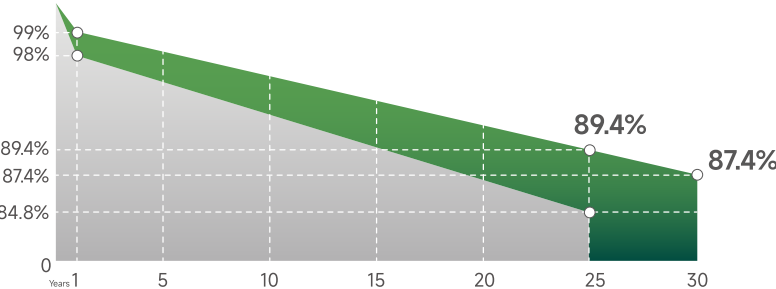
RS7-630~650NBG-E2

N-Type /Positive power tolerance of 0~+3%/Max module efficiency 23.25%

- Suitable for ground power plants and distributed projects
- Advanced module technology delivers superior module efficiency
 - Non destructive cutting ·MBB half-cut
- Excellent power generation performance
 - Excellent IAM and low irradiation performance ·Lower temperature coefficient
 - 0.40% linear Power decline
- High module quality ensures long-term reliability
 - Strict selected material ·Advanced technology ·Leading standard
- Enhanced Mechanical Load
 - Mechanical performance up to5400pa positive load and 2400pa negative load

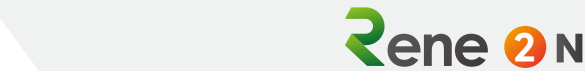
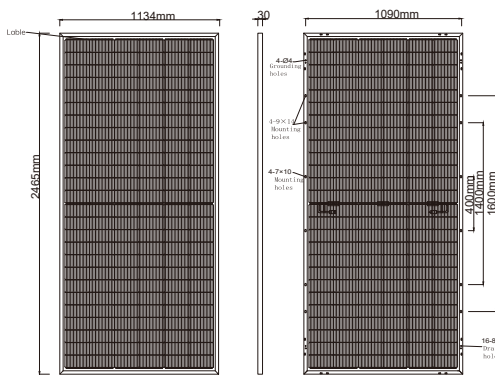
Complete System
and IEC Product Certification

IEC 61215,IEC 61730 ISO9001:
2015:Quality Management System ISO14001:
2015:Environment Management System
ISO45001:2018:Occupational Health
and Safety Management System



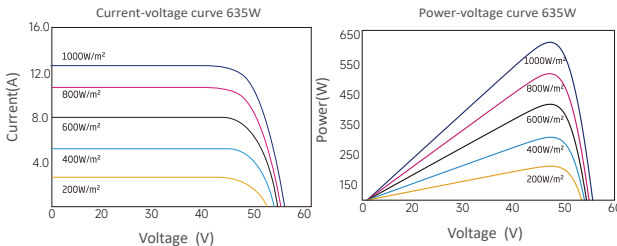
30-Year Excess Linear Power Output Warranty

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RS7-630~650NBG-E2

BIFACIAL MODULE WITH DUAL GLASS



Electrical Characteristics STC	RS7-630NBG-E2	RS7-635NBG-E2	RS7-640NBG-E2	RS7-645NBG-E2	RS7-650NBG-E2
Maximum Power (Pmax)	630W	635W	640W	645W	650W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	22.54%	22.72%	22.90%	23.07%	23.25%
Maximum Power Current (Imp)	13.21A	13.27A	13.33A	13.39A	13.45A
Maximum Power Voltage (Vmp)	47.70V	47.86V	48.02V	48.17V	48.33V
Short Circuit Current (Isc)	13.86A	13.92A	13.98A	14.04A	14.10A
Open Circuit Voltage (Voc)	57.63V	57.76V	57.89V	58.02V	58.15V

Values at Standard Test Conditions STC (AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

Electrical Characteristics BNPI	RS7-630NBG-E2	RS7-635NBG-E2	RS7-640NBG-E2	RS7-645NBG-E2	RS7-650NBG-E2
Maximum Power (Pmax)	698W	704W	709W	715W	720W
Maximum Power Current (Imp)	14.64A	14.70A	14.77A	14.84A	14.90A
Maximum Power Voltage (Vmp)	47.70V	47.86V	48.02V	48.17V	48.33V
Short Circuit Current (Isc)	15.36A	15.42A	15.49A	15.56A	15.62A
Open Circuit Voltage (Voc)	57.63V	57.76V	57.89V	58.02V	58.15V

BNPI: Irradiance: Front 1000W/m², Rear 135W/m², Ambient Temperature 25°C, AM=1.5, Power Bifaciality:80±5%.

Electrical Characteristics rear side power gain	RS7-630NBG-E2	RS7-635NBG-E2	RS7-640NBG-E2	RS7-645NBG-E2	RS7-650NBG-E2
Backside Power Gain	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%
Maximum Power (Pmax)	662W 693W	667W 699W	672W 704W	677W 710W	683W 715W
Maximum Power Current (Imp)	13.87A 14.53A	13.93A 14.59A	13.99A 14.66A	14.06A 14.73A	14.12A 14.79A
Maximum Power Voltage (Vmp)	47.70V 47.70V	47.86V 47.86V	48.02V 48.02V	48.17V 48.17V	48.33V 48.33V
Short Circuit Current (Isc)	14.55A 15.25A	14.62A 15.31A	14.68A 15.38A	14.74A 15.44A	14.81A 15.51A
Open Circuit Voltage (Voc)	57.63V 57.63V	57.76V 57.76V	57.89V 57.89V	58.02V 58.02V	58.15V 58.15V

Mechanical Characteristics	
Cell Type	Mono N-Type,156(6×26) Half-Cut cells
Glass	2mm+2mm,High Transmission,Low Iron,Semi-tempered glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Dimension	2465x1134x30mm
Output Cable	4mm2(EU),+200mm,-300mm or Customized
Weight	35kg
Connector	MC4 Compatible

Packing Information	
Container	40' HQ
Pallets per Container	16
Pieces per Container	592

Characteristics	
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Nominal Operating Cell Temperature(NOCT)	43±2°C
Fire Performance	IEC Class C

Remark:Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

Maximum Ratings	
Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	30A



Note: Please read the safety and installation instructions before using this product
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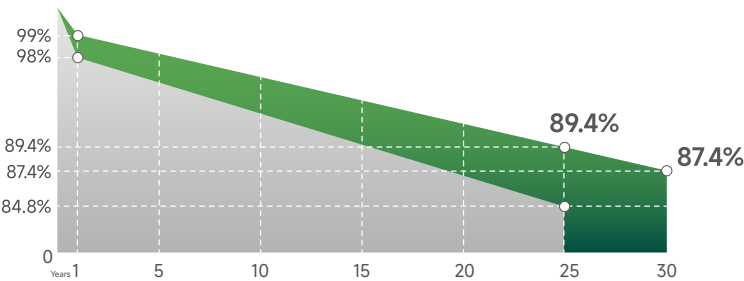
BIFACIAL MODULE WITH DUAL GLASS
RS5J-635~650NBG-E1

N-Type /Positive power tolerance of 0~+3%/Max module efficiency 24.06%

- Suitable for Ground Power Plants and Distributed Projects
- Advanced Module Technology Delivers Superior Module Efficiency
 - Non destructive cutting · MBB half-cut
- Excellent Power Generation Performance
 - Excellent IAM and low irradiation performance · Lower temperature coefficient
 - 0.40% linear Power decline
- High module Quality Ensures Long-term Reliability
 - Strict selected material · Advanced technology · Leading standard
- Enhanced Mechanical Load
 - Mechanical performance up to5400pa positive load and 2400pa negative load

Complete System
and IEC Product Certification

IEC 61215 , IEC 61730 ISO9001:
2015: Quality Management System ISO14001:
2015: Environment Management System
ISO45001: 2018: Occupational Health
and Safety Management System

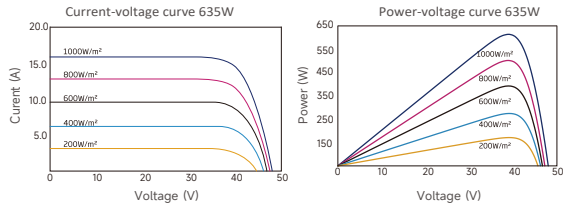
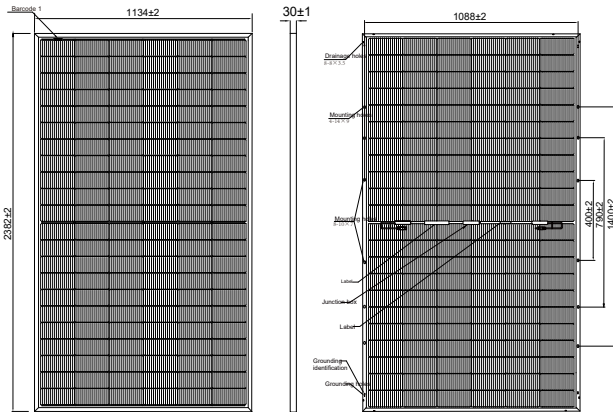


30-Year Excess Linear Power Output Warranty

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Leading Brand



RS5J-635~650NBG-E1
BIFACIAL MODULE WITH DUAL GLASS



Drawing Only for Reference

Electrical Characteristics STC	RS5J-635NBG-E1	RS5J-640NBG-E1	RS5J-645NBG-E1	RS5J-650NBG-E1
Maximum Power (Pmax)	635W	640W	645W	650W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	23.51%	23.69%	23.88%	24.06%
Maximum Power Current (Imp)	15.41A	15.46A	15.51A	15.56A
Maximum Power Voltage (Vmp)	41.21V	41.40V	41.59V	41.77V
Short Circuit Current (Isc)	16.26A	16.32A	16.38A	16.44A
Open Circuit Voltage (Voc)	49.68V	49.88V	50.08V	50.28V

Values at Standard Test Conditions STC (AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

Electrical Characteristics BNPI	RS5J-635NBG-E1	RS5J-640NBG-E1	RS5J-645NBG-E1	RS5J-650NBG-E1
Maximum Power (Pmax)	704W	709W	715W	720W
Maximum Power Current (Imp)	17.07A	17.13A	17.19A	17.24A
Maximum Power Voltage (Vmp)	41.21V	41.40V	41.59V	41.77V
Short Circuit Current (Isc)	18.02A	18.08A	18.15A	18.22A
Open Circuit Voltage (Voc)	49.68V	49.88V	50.08V	50.28V

BNPI: Irradiance: Front 1000W/m², Rear 135W/m², Ambient Temperature 25°C, AM=1.5, Power Bifaciality:80±5%.

Electrical Characteristics Rear Side Power Gain	RS5J-635NBG-E1		RS5J-640NBG-E1		RS5J-645NBG-E1		RS5J-650NBG-E1	
Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%
Maximum Power (Pmax)	667W	699W	672W	704W	677W	710W	683W	715W
Maximum Power Current (Imp)	16.18A	16.95A	16.23A	17.01A	16.29A	17.06A	16.34A	17.12A
Maximum Power Voltage (Vmp)	41.21V	41.21V	41.40V	41.40V	41.59V	41.59V	41.77V	41.77V
Short Circuit Current (Isc)	17.07A	17.89A	17.14A	17.95A	17.20A	18.02A	17.26A	18.08A
Open Circuit Voltage (Voc)	49.68V	49.68V	49.88V	49.88V	50.08V	50.08V	50.28V	50.28V

Mechanical Characteristics

Cell Type	Mono N-Type,132(6×22) Half-Cut cells
Glass	2mm+2mm,High Transmission,Low Iron,Semi-Tempered glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Dimension	2382x1134x30mm
Output Cable	4mm2(EU),+200mm,-300mm or Customized
Weight	32.4kg
Connector	MC4 Compatible

Packing Information

Container	40' HQ
Pallets per Container	20
Pieces per Container	740

Characteristics

Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Nominal Operating Cell Temperature(NOCT)	43±2°C
Fire Performance	IEC Class C

Remark:Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

Maximum Ratings

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	30A



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Version Number: RS5J-001-B-EN





BIFACIAL MODULE WITH DUAL GLASS

RS5J-640~665IBG-E1

BC-Type /Positive power tolerance of 0~+3%/Max module efficiency 24.62%

- Suitable for ground power plants and distributed projects
- Advanced module technology delivers superior module efficiency
 - Partial Shading Optimisation · PFAS - free
- Excellent power generation performance
 - Better Temperature Coefficient · High Temperature Restriction · Higher Power
- High module quality ensures long-term reliability
 - Micro - crack Resistance · More Aesthetic Values · Lower BOS

Complete System and IEC Product Certification

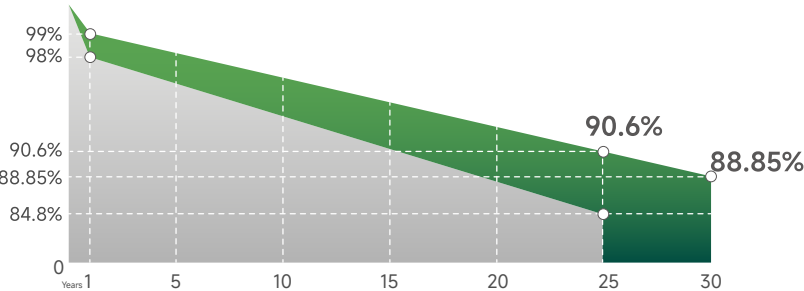
IEC 61215 IEC 61730 ISO 9001:
2015:Quality Management System ISO14001:
2015:Environment Management System
ISO45001:2018:Occupational Health and Safety Management System

15-Year

Material & Workmanship

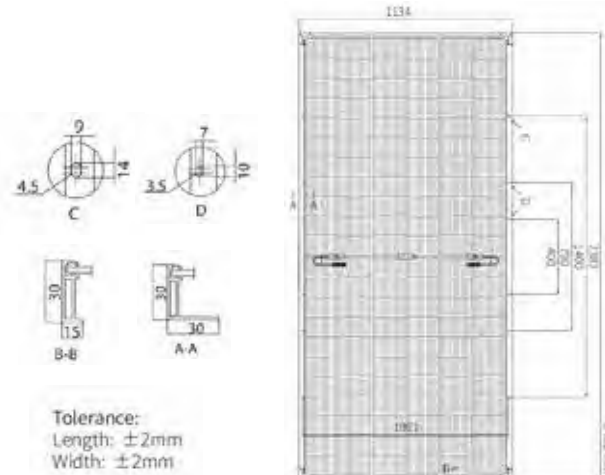
30-Year

Linear Power Output



30-Year Excess Linear Power Output Warranty

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Electrical Characteristics STC	RS5J-640IBG-E1	RS5J-645IBG-E1	RS5J-650IBG-E1	RS5J-655IBG-E1	RS5J-660IBG-E1	RS5J-665IBG-E1
Maximum Power (Pmax)	640W	645W	650W	655W	660W	665W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	23.69%	23.88%	24.06%	24.25%	24.43%	24.62%
Maximum Power Current (Imp)	15.69A	15.78A	15.86A	15.94A	16.03A	16.11A
Maximum Power Voltage (Vmp)	40.78V	40.88V	40.98V	41.08V	41.18V	41.28V
Short Circuit Current (Isc)	16.38A	16.46A	16.54A	16.62A	16.70A	16.78A
Open Circuit Voltage (Voc)	49.52V	49.62V	49.72V	49.82V	49.92V	50.02V

Electrical Characteristics NOCT	RS5J-640IBG-E1	RS5J-645IBG-E1	RS5J-650IBG-E1	RS5J-655IBG-E1	RS5J-660IBG-E1	RS5J-665IBG-E1
Maximum Power (Pmax)	487W	491W	495W	499W	502W	506W
Maximum Power Current (Imp)	12.58A	12.65A	12.72A	12.78A	12.85A	12.92A
Maximum Power Voltage (Vmp)	38.76V	38.85V	38.95V	39.04V	39.14V	39.23V
Short Circuit Current (Isc)	13.16A	13.22A	13.28A	13.35A	13.41A	13.48A
Open Circuit Voltage (Voc)	47.06V	47.16V	47.25V	47.35V	47.44V	47.54V

Electrical Characteristics With10% Rear Side Power Gain	RS5J-640IBG-E1	RS5J-645IBG-E1	RS5J-650IBG-E1	RS5J-655IBG-E1	RS5J-660IBG-E1	RS5J-665IBG-E1
Maximum Power (Pmax)	704W	710W	715W	721W	726W	732W
Maximum Power Current (Imp)	17.26A	17.36A	17.45A	17.53A	17.63A	17.72A
Maximum Power Voltage (Vmp)	40.78V	40.88V	40.98V	41.08V	41.18V	41.28V
Short Circuit Current (Isc)	18.02A	18.11A	18.19A	18.28A	18.37A	18.46A
Open Circuit Voltage (Voc)	49.52V	49.62V	49.72V	49.82V	49.92V	50.02V

Mechanical Characteristics	
Cell Type	Mono BC-type, 132(6X22) Half-cut cells
Glass	2mm+2mm,High Transmission,Low Iron,Semi-tempered glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Dimension	2382x1134x30
Output Cable	4mm2(EU),+400mm,-200mm or Customized
Weight	33.5kg
Connector	MC4 Compatible

Packing Information	
Container	40' HQ
Pallets per Container	20
Pieces per Container	720

Characteristics	
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	+0.05%/°C
Temperature Coefficient of Pmax	-0.26%/°C
Nominal Operating Cell Temperature (NOCT)	43±2°C

Remark:Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

Maximum Ratings	
Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	35A



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Version number: RS-T5J-IBG-B-EN





BIFACIAL MODULE WITH DUAL GLASS

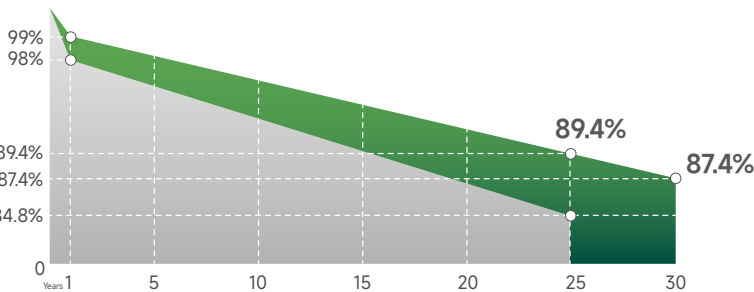
RS9-720~730NBG-E1

N-Type /Positive power tolerance of 0~+3%/Max module efficiency 23.50%

- Suitable for ground power plants and distributed projects
- Advanced module technology delivers superior module efficiency
 - Non destructive cutting ·MBB half-cut
- Excellent power generation performance
 - Excellent IAM and Weak light response ·Low temperature ratings
 - 0.40% linear Power decline
- High module quality ensures long-term reliability
 - Strict selected material ·Advanced technology ·Leading standard
- Enhanced Mechanical Load
 - Mechanical performance up to5400pa positive load and 2400pa negative load

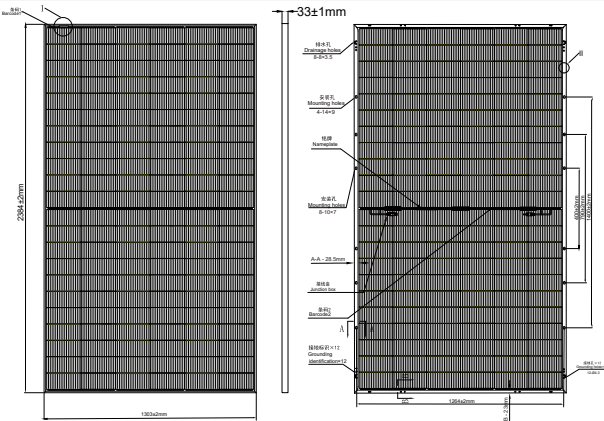
Complete System
and IEC Product Certification

IEC 61215, IEC 61730, ISO9001:
2015:Quality Management System ISO14001:
2015:Environment Management System
ISO45001:2018:Occupational Health
and Safety Management System



30-Year excess linear power output warranty

BLOOMBERG
TIER 1
Global
Leading Brand

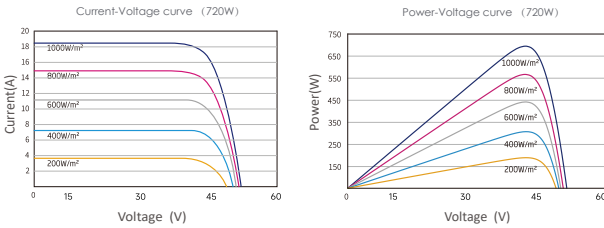


Drawing Only for Reference



RS9-720~730NBG-E1

BIFACIAL MODULE WITH DUAL GLASS



Electrical Characteristics STC	RS9-720NBG-E1	RS9-725NBG-E1	RS9-730NBG-E1
Maximum Power(Pmax)	720W	725W	730W
Power Tolerance	0~+5W	0~+5W	0~+5W
Module Efficiency	23.18%	23.34%	23.50%
Maximum Power Current(Imp)	17.44A	17.47A	17.50A
Maximum Power Voltage(Vmp)	41.30V	41.50V	41.71V
Short Power Voltage(Isc)	18.49A	18.54A	18.59A
Open Circuit Voltage(Voc)	49.40V	49.60V	49.80V

Values at Standard Test Conditions STC(AM1.5, Irradiance 1000W/ m², Cell Temperature 25°C)

Electrical Characteristics BNPI	RS9-720NBG-E1	RS9-725NBG-E1	RS9-730NBG-E1
Maximum Power(Pmax)	798W	803W	809W
Maximum Power Current(Imp)	19.32A	19.36A	19.39A
Maximum Power Voltage(Vmp)	41.30V	41.50V	41.71V
Short Power Voltage(Isc)	20.49A	20.54A	20.60A
Open Circuit Voltage(Voc)	49.40V	49.60V	49.80V

BNPI: Irradiance: Front 1000W/m², Rear 135W/m², Ambient Temperature 25°C, AM=1.5, Power Bifaciality:80±5%.

Electrical Characteristics rear side power gain	RS9-720NBG-E1	RS9-725NBG-E1	RS9-730NBG-E1
Backside Power Gain	5% 10%	5% 10%	5% 10%
Maximum Power(Pmax)	756W 792W	761W 798W	767W 803W
Maximum Power Current(Imp)	18.31A 19.18A	18.34A 19.22A	18.38A 19.25A
Maximum Power Voltage(Vmp)	41.31V 41.30V	41.50V 41.50V	41.71V 41.71V
Short Power Voltage(Isc)	19.41A 20.34A	19.47A 20.39A	19.52A 20.45A
Open Circuit Voltage(Voc)	49.40V 49.40V	49.60V 49.60V	49.80V 49.80V

Mechanical Characteristics	
Cell Type	MonoN-Type,132(6×22), Half-Cut cells
Glass	2mm+2mm, High Transmission,Low Iron,Semi Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68Rated
Dimension	2384x1303x33mm
Output Cable	4mm2(EU),+200mm,-300mm or Customized
Weight	38.7kg
Connector	MC4 compatible

Packing Information	
Container	40'HQ
Pallets per Container	18
Pieces per Container	594

Characteristics	
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Nominal Operating Cell Temperature(NOCT)	43±2°C
Fire Performance	IEC Class C

Remark:Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

Maximum Ratings	
Operating Temperature	-40°C ~+85°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	35A



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web: www.renesola-energy.com
Version number:RS-T9-05-B-EN





M16S314BL-F

- Original Grade A lithium iron phosphate battery cell has high safety and reliability
- The charging and discharging efficiency is high, and the number of cycles is more than 6000 times
- Compatible with most inverters on the market
- Supporting RS485 and CAN communication
- Modular design, can be expanded at any time to increase the energy of the system
- Supporting up to 15 batteries in parallel
- ON/OFF switch control output
- The LCD display monitors the operating status in real time



TECHNICAL SPECIFICATION

Model	M16S314BL-F
Cells In Series	16S
Rated Energy(kWh)	16.0
Rated Voltage (V)	51.2V
Charging Voltage (V)	58.4
Discharge Cut-off Voltage (V)	42
Standard Charge Current (A)	50
Maximum Charging Current (A)	100
Maximum Discharge Current (A)	200
Features	
Cycle Life	≥10000 times@ 25°C, 90% DOD,200A
Methods Of Communication	RS232/RS485/CAN
Charging Temperature	0~60°C
Discharge Temperature	-10~65°C
How It Is Displayed	LCD display
IP Protection	IP21
Conventional	
Product Dimensions(L*W*Hmm)	520*300*910
Net Weight (Kg)	132.4
Packing Dimensions(L*W*Hmm)	950*705*615
Gross Weight (Kg)	153.4



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LiFePO4 Battery, and the main use areas are as follows



Home energy storage



Machine shop



Solar storage



Off-grid Hybrid Inverter 3/4/5/6kW

RSL-3~6K-S

• Support Grid/Generator Input

Dual AC inputs and integrated grid-generator switching system

• Smart Load Management

Dual AC outputs design

• Remote Monitoring

Built-in WiFi module for App monitoring

• Parallel Connection

Parallel connection with up to 9 units

• Faster On/Off-grid Switching

UPS-level switching time: 10ms

• Efficient Battery Charge/Discharge

Max.120A charge current
Max.137A discharge current



Application scenario



TECHNICAL SPECIFICATION

Model	RSL-3K-S	RSL-4K-S	RSL-5K-S	RSL-6K-S
Solar Input Data				
Max. PV Input Power	3300W	4400W	6000W	7800W
Max. Input Voltage	500V		550V	
Start-up Voltage	120V			
MPPT Voltage Range	90V-450V		90V-500V	
Max. Input Current per MPPT	18A		27A	
Max. Short Circuit Current per MPPT	23A		32A	
Number of MPPT	1			
AC Input Data (Grid&Generator)				
Nominal Input Voltage	230Vac, L/N/PE			
Input Voltage Range	90-280Vac (APL); 170-280Vac (UPS)			
Max. Input Current	35A			
Nominal Input Power	8050W			
AC Frequency Range	40-65Hz			
Battery Data				
Battery Type	Li-Ion/Lead-acid			
Nominal Battery Voltage	24V		48V	
Battery Voltage Range	20~30V		42~60V	
Max. Discharge Current	137A	137A	115A	137A
Max. Charge/Discharge Power	3000W	3300W	5000W	6000W
Li-Ion Battery Activation	Yes			
Li-Ion Battery Communication	CAN/RS485			
Max. Solar Charge Current	120A	120A	100A	120A
Max. AC Charge Current	100A	100A	80A	100A
Max. Charge Current (PV+AC)	120A	120A	100A	120A
Inverter Output Data				
Nominal Output Power	3000W	4000W	5000W	6000W
Peak Apparent AC Power	6000VA	8000VA	10000VA	12000VA
Nominal AC Voltage	230V			
Nominal Grid Frequency	50/60Hz (Auto Sensing)			
Voltage Waveform	Pure Sine Wave			
Transfer Time	10ms			
Max.Output Current	14A	18A	22A	27A
Overload Protection	30s@102%-110% load; 10s@110%-130% load; 5s@130%-200% load			
THDv (@linealload)	<3%			
Efficiency				
Peak Efficiency	94%			
MPPT Efficiency	≥99.9%			
Protect				
DC Surge Protection	Yes			
AC Surge Protection	Yes			
AC Short Circuit Protection	Yes			
System Parameters				
Dimension (W*H*D)	333*505*120mm			
Weight	10.6kg			
Relative Humidity	5%-95%(Non-condensing)			
Operating Temperature Range	-10°C-50°C			
Noise Emission	≤50dB			
Altitude	4000m			
Cooling Method	Fan Cooling			
Ingress Protection	IP21			
Characteristic				
Number of AC Output	2			
Display	LCD&LED&APP			
Communication Interface	RS485/USB/CAN/Wi-Fi			
Parallel Capability	—	—	9	9



Note: Please read the safety and installation instructions before using this product
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Off-grid Inverter 8/10/12kW

RSL-8~12K-S

- Oversizing Ratio**
Higher PV/AC ratio up to 1.5,
allowing greater energy harvest
- Exceptional Load-carrying Capability**
Support battery discharge current of up to 280A
Support higher loads powered by battery only
- Parallel Connection**
Support parallel connection up to 9 units
- Powerful Instant Overload Capacity**
Support 2 times the rated power for 5
seconds in off-grid mode
- Smart Load Management**
Dual AC outputs to power loads on
demand priority
- Generator Input**
Equipped with GEN port to connect with
diesel generator
- Seamless Switchover**
UPS-level switching time≤4ms
- Superior High-Temperature Stability**
Allow full-power output up to 12kW under
high-temperature conditions



Application scenario



House



Farm



Telecom



Countryside



Island



Pasture

TECHNICAL SPECIFICATION

Model	RSL-8K-S	RSL-10K-S	RSL-12K-S
Solar Input Data			
Recommended Max. PV Array Size	16000W	20000W	24000W
Max. PV Input Power	12000W	15000W	18000W
Max. Input Voltage	500V		
Start-up Voltage	90V		
MPPT Voltage Range	90~450V		
Max. Input Current per MPPT	30+30A		
Max. Short Circuit Current per MPPT	44+44A		
Number of MPPT	2		
Number of Strings per MPPT	2+2		
Battery Data			
Battery Type	Li-Ion / Lead-acid		
Nominal Battery Voltage	48V		
Battery Voltage Range	40~60V		
Max. Discharge Current	190A	230A	280A
Max. Charge/Discharge Power	8000W	10000W	280A
Li-Ion Battery Activation	Yes		
Li-Ion Battery Communication	CAN / RS485		
Max. Solar Charge Current	180A	220A	250A
Max. AC Charge Current	160A	190A	210A
Max. Charge Current (PV+AC)	180A	220A	250A
AC Input Data (Grid / GEN)			
Nominal Input Voltage	230Vac, L / N / PE		
Input Voltage Range	90~280Vac		
Max. AC Current From Utility Grid	70A	70A	70A
Max. Apparent Power from Utility Grid	8000VA	10000VA	12000VA
Max AC Current From Generator	60A	60A	60A
Max. Apparent Power From Generator	8000VA	10000VA	12000VA
AC Frequency Range	50 / 60Hz (Auto sensing)		
Inverter Output Data			
Nominal Output Power	8000W	10000W	12000W
Peak Apparent AC Power	16000VA	20000VA	24000VA
Nominal AC Voltage	230Vac		
Nominal Grid Frequency	50 / 60Hz		
Voltage Waveform	Pure Sine Wave		
Transfer Time	4ms		
Max.Output Current	34.8A	43.5A	52.2A
Overload Protection	30s@102%-110% load; 10s@110%-130% load; 5s@130%-200% load		
THDv (@linearload)	<5%		
Efficiency			
Peak Efficiency	94%		
MPPT Efficiency	≥99.9%		
Protection			
PV Reverse Polarity Protection	Yes		
AC Short-circuit Current Protection	Yes		
Grid Monitoring	Yes		
Over-current Protection	Yes		
Over-voltage Protection	Yes		
AC Surge Protection	Yes		
DC Surge Protection	Yes		
System Parameters			
Dimension (W*H*D)	625*400*120mm		
Weight	17.9kg		
Relative Humidity	5%-95% (Non-condensing)		
Operating Temperature Range	-10°C~60°C		
Noise Emission	≤50dB		
Altitude	2000m		
Cooling Method	Fan Cooling		
Ingress Protection	IP21		
Characteristic			
Number of AC Output	2		
Display	LCD & APP		
Communication Interface	RS485 / USB / CAN / Wi-Fi (built-in) Dry-Contact		
Parallel Capability	9		



Note: Please read the safety and installation instructions before using this product
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Single Phase | 2 MPPTs Hybrid Inverter
Low Voltage

RSHL-3~8K-S

- AC/DC Coupling&Generator Compatible
- <10ms UPS Function for Uninterrupted Power
- Smart Load Management for Energy Optimization
- Up to 8 Units Parallel Flexible Expansion
- 160A High-Capacity Battery Support
- IP65 Rated with Silent Operation



Application scenario



House



Farm



Telecom



Countryside



Island



Pasture

TECHNICAL SPECIFICATION

Model	RSLH-3K/ RSLH-3K-S	RSLH-3K6/ RSLH-3K6-S	RSLH-4K/ RSLH-4K-S	RSLH-4K6/ RSLH-4K6-S	RSLH-5K/ RSLH-5K-S	RSLH-6K/ RSLH-6K-S	RSLH-7K/ RSLH-7K-S	RSLH-8K/ RSLH-8K-S
Inverter Input/Output (Grid)								
Rated Power (kW)	3	3.6	4	4.6 ⓘ	5 ⓘ	6	7	8
Rated Voltage	220/230/240Va.c., L+N+PE							
Rated Frequency (Hz)	50/60							
Power Factor Range	0.8 leading~0.8 lagging							
Switch Time (ms)	<10							
Current (Maximum/Continuous)(A a.c.)	13	16	17	20	21	26	30.4	34.8
Max Output Overcurrent Protection	250Va.c./60A a.c.							
Battery								
Battery Type	Lithium/Lead-acid							
Battery Voltage Range (V d.c.)	45-58							
Rated Battery Voltage (V d.c.)	51.2							
Max Charge Current (A d.c.)	60	70	80	90	100	110	140	160
Max Discharge Current (A d.c.)	60	70	80	90	100	110	140	160
Reverse Connect Protection	Yes							
PV Input								
No.of MPPT Tracker/Strings	2/1+1							
Max.PV Array Power (kW)	4.5	5.4	6	6.9	7.5	9	10.5	12
Max DC Voltage (V d.c.)	550							
MPPT Voltage Range (V d.c.)	120~500							
Start-up Voltage (V d.c.)	120							
Max.Input Current (A d.c.)	16/16						18/18	
Isc PV (Absolute Maximum)(A d.c.)	24/24							
AC Output (EPS)/ Generator								
EPS Rated Output Voltage	220/230/240Va.c., L+N+PE							
EPS Rated Output Frequency (Hz)	50/60							
EPS Rated Output Active Power (kW)	3	3.6	4	4.6	5	6	7	8
EPS Rated Output Apparent Power (kVA)	3	3.6	4	4.6	5	6	7	8
EPS Rated Output Current (A a.c.)	13	16	17	20	21	26	30.4	34.8
Overload Capacity (Off Grid)	120% 10s/150% 200ms							
Efficiency								
MPPT Efficiency	99.20%							
Euro-efficiency	95.30%							
Max.Efficiency	96.50%							
Protection & Feature								
Insulation Monitoring	Yes							
Residual Current Monitoring	Yes							
Parallel Function	Yes, up to 8pcs							
Protection Degree	IP65							
Certifications	ENIEC62477-1, EN IEC62109-1/2, ENIEC61000-6-1, EN50549-1, G99, NTS631, UNE217002:2020 etc.							
Other Protection	Overload, Overtemperature, Short circuit, Active anti-islanding method etc.							
General Parameter								
Storage Temperature	-25°C~ +60°C							
Operating Temperature	-25°C~ +60°C (Linely derating to 60% when exceed +45°C~ +60°C)							
Humidity	0-100% (Non-condensing)							
Altitude (m)	<2000							
Noise (dB)	<35						<56	
Dimension: W*D*H (mm)	506*556*206							
Machine Weight/N.W. (kg)	25						30.6	
Display & Communication								
Display	App+LED/LCD (-Sversion)							
Interface	CAN/RS485/Bluetooth/WiFi (Optional:4G/DRM)							



Note: Please read the safety and installation instructions before using this product
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Single Phase | 3 MPPTs Hybrid Inverter
Low Voltage

RSHL-10~16K-S

- Max.275A Charge/Discharge for High-Rate Battery Support
- Wide MPPT Range(80-480V) for Complex Rooftop Design
- <10ms UPS-Level Switching for Critical Load Continuity
- 3 MPPTs with 150% PV Oversizing for Higher Yield
- Supports Generator&Smart load, Parallel up to 6 Units
- AC Coupling Ready for Easy Retrofit and System Upgrade



Application scenario



House



Farm



Telecom



Countryside



Island



Pasture

TECHNICAL SPECIFICATION

Model	RSHL-10K-S	RSHL-12K-S	RSHL-14K-S	RSHL-16K-S
Inverter Input/Output (Grid)				
Rated Power (kW)	10	12	14	16
Rated Voltage	220/230/240Va.c., L+N+PE			
Rated Frequency (Hz)	50/60			
Power Factor Range	0.8 leading~0.8 lagging			
Switch Time (ms)	<10			
Current (Maximum/Continuous)(A a.c.)	43.5	52.2	60.9	69.6
Max Output Overcurrent Protection	100			
Battery				
Battery Type	Lithium/Lead-acid			
Battery Voltage Range (V d.c.)	40-60			
Rated Battery Voltage (V d.c.)	51.2			
Max Charge Current (A d.c.)	220	250	275	275
Max Discharge Current (A d.c.)	220	250	275	275
Reverse Connect Protection	Yes			
PV Input				
No.of MPPT Tracker/Strings	3/2+2+2			
Max.PV Array Power (kW)	15	18	21	22.5
Max DC Voltage (V d.c.)	550			
MPPT Voltage Range (V d.c.)	80-480			
Start-up Voltage (V d.c.)	120			
Max.Input Current (A d.c.)	3*26			
Isc PV (Absolute Maximum)(A d.c.)	3*39			
Ac Output (EPS)				
EPS Rated Output Voltage	220/230/240Va.c., L+N+PE			
EPS Rated Output Frequency (Hz)	50/60			
EPS Rated Output Active Power (kW)	10	12	14	16
EPS Rated Output Apparent Power (kVA)	10	12	14	16
EPS Rated Output Current (A a.c.)	43.5	52.2	60.9	69.6
Overload Capacity (Off Grid)	110%(<60s)/120%(<30s)/150%(<10s)			
Efficiency				
MPPT Efficiency	99.90%			
Euro-efficiency	96.50%			
Max.Efficiency	97.30%			
Protection & Feature				
Insulation Monitoring	Yes			
Residual Current Monitoring	Yes			
Parallel Function	Yes			
Protection Degree	IP65			
Certifications	CE10-21, EN50549-1, VDE-AR-N4105, UNE217002, NTSTYPEA, G99, AS/NZS477.2etc.			
Other Protection	Output overvoltage,Output over curent,Shortcircuit,Surge,Temperature			
General Parameter				
Storage Temperature	-25°C~ +60°C			
Operating Temperature	-25°C~ +60°C (Linely derating to 60% when exceed +45°C~ +60°C)			
Humidity	0-100% (Non-condensing)			
Altitude (m)	4000(>2000 Derating)			
Noise (dB)	<45			
Machine Dimension(W*H*D) (mm)	600*466*252			
Machine Weight/N.W. (kg)	40			
Display & Communication				
Display	LCD+APP			
Interface	RS485/WiFi/CAN/Bluetooth(Optional:Bluetooth/LAN/Meter)			



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Three Phase | 2 MPPTs Hybrid Inverter(LV)

RSHL-8~24K-T

• Extreme Climate Adaptability

Full-load operation, 45°C without derating

• Wide Grid Adaptability

154V-286V per phase input, 50/60Hz autoadaptation, built-in SPD

• Flexible System Expansion

Up to 8 units parallel, supports AC coupling for retrofit

• High Battery Compatibility

Max.415A charge/discharge, supports three battery inputs

• High Surge & Unbalanced Output

2×load surge for 10s, 150% three-phase unbalanced output

• SiC + Full Aluminum + IP66

High efficiency, lightweight, IP66 protection



Application scenario



House



Farm



Telecom



Countryside



Island



Pasture

TECHNICAL SPECIFICATION

Model	RSHL-8K-T	RSHL-10K-T	RSHL-12K-T	RSHL-15K-T	RSHL-18K-T	RSHL-20K-T	RSHL-24K-T
Inverter Input/Output (Grid)							
Rated Power (kW)	8/8	10/10	12/12	15/15	18/18	20/20	24/24
Rated Voltage	380/400 V a.c., 3W+N+PE						
Rated Frequency (Hz)	50/60						
Power Factor Range	0.8 leading~0.8 lagging						
Switch Time (ms)	<20						
Current (Maximum/Continuous)(A a.c.)	24/12	29/15	35/17	43/22	52/26	58/29	60/35
Max Output Overcurrent Protection	400 Va.c./100 A a.c.						
Battery							
Battery Type	Lithium/Lead-acid						
Battery Voltage Range (V d.c.)	40~60						
Rated Battery Voltage (V d.c.)	51.2				48		
Max Charge Current (A d.c.)	180	220	250	315	375	390	415
Max Discharge Current (A d.c.)	180	220	250	315	375	390	415
PV Input							
No.of MPPT Tracker/Strings	2/2+2						
Max.PV Array Power (kW)	16	20	24	30	36	40	48
Max DC Voltage (V d.c.)	1000						
MPPT Voltage Range (V d.c.)	150~950Vd.c.						
Start-up Voltage (V d.c.)	180						
Max.Input Current (A d.c.)	4*20						
Isc PV (Absolute Maximum)(A d.c.)	4*30						
AC Output (EPS)							
EPS Rated Output Voltage	380/400 V a.c., 3W+N+PE						
EPS Rated Output Frequency (Hz)	50/60						
EPS Rated Output Active Power (kW)	8	10	12	15	18	20	24
EPS Rated Output Apparent Power (kVA)	8	10	12	15	18	20	24
EPS Rated Output Current (A a.c.)	12	15	17	22	26	29	35
Overload Capacity (Off Grid)	110% 600s/120% 300s/150% 60s/200% 10s						
Efficiency							
MPPT Efficiency	99.90%						
Euro-efficiency	97.00%			97.20%			
Max.Efficiency	97.50%			98.00%			
Protection & Feature							
Insulation Monitoring	Yes						
Residual Current Monitoring	Yes						
Parallel Function	Yes						
Protection Degree	IP66						
Certifications	IEC62109-1/2, IEC62477-1, IEC61000-6-1, IEC61000-6-3, EN 50549-1&-10, NRS 097-2-1, IEC61727, IEC61683, IEC 62116						
Other Protection	Output over voltage, Output over current, Short circuit, Surge, Temperature, Anti-Islandmg						
General Parameter							
Storage Temperature	-25°C ~ +60°C						
Operating Temperature	-25°C ~ +60°C (Linely derating to 60% when exceed +45°C~ +60°C)						
Humidity	0-95% (Non-condensing)						
Altitude (m)	4000 (>2000 Derating)						
Noise (dB)	<65			<75			
Machine Dimension(W*H*D) (mm)	448*660*265						
Machine Weight/N.W. (kg)	45			48			
Display & Communication							
Display	LCD+APP						
Interface	RS485/WiFi/CAN/DRM (Optional:Bluetooth/LAN/Meter)						



Note: Please read the safety and installation instructions before using this product
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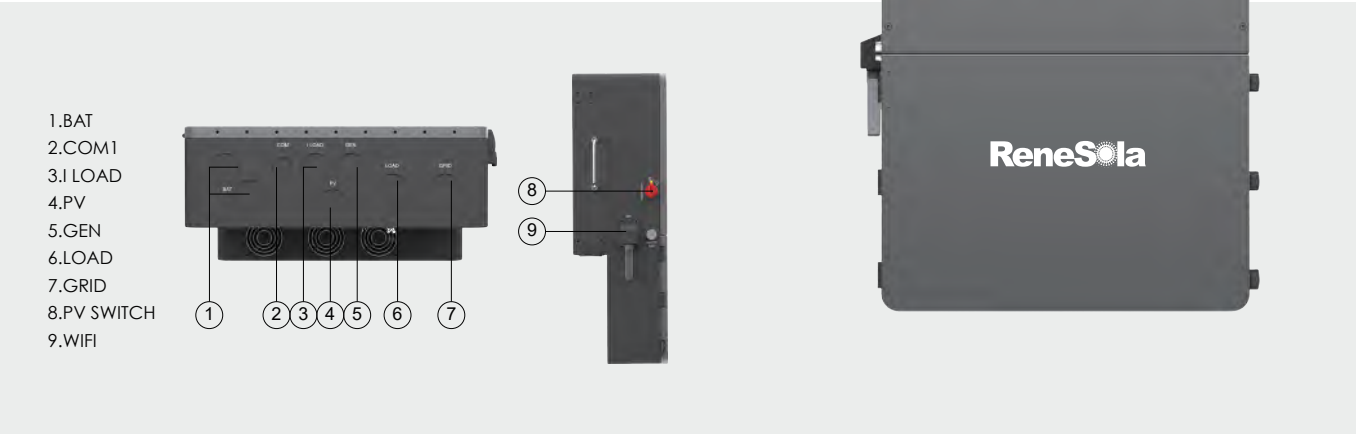




Split-Phase Hybrid Inverter
120Va.c./240Va.c.(Split Phase),208Va.c.(2/3Phase)

RSL-8K-15K-SPUSResidential Use

- Easy to install
- Remote monitoring via APP or Web
- IP65, long lifespan
- A variety of intelligent working modes
- Support BMS communication
- 3.5-inch touch screen



Application scenario



TECHNICAL SPECIFICATION

Model	RSL-8K-SPUS	RSL-10K-SPUS	RSL-12K-SPUS	RSL-15K-SPUS
Inverter Input/Output (Grid)				
Rated Power	8 kW	10 kW	12 kW	15 kW
Rated Voltage	120Va.c./240Va.c. (Split Phase),208Va.c. (2/3Phase)			
Rated Frequency	50 Hz/60 Hz			
Power Factor Range	0.8 leading~0.8lagging			
Switch Time	<10 ms			
Current(Maximum Continuous)	33.4Aa.c.	41.7Aa.c	50Aa.c.	62.5Aa.c.
Max.Output Overcurrent Protection	250Va.c/125Aa.c			
Battery				
Battery Type	Lithium/Lead-acid			
Battery Voltage Range	40~60 Vd.c.			
Rated Battery Voltage	51.2Vd.c.			
Max.Charge Current	167 Ad.c.	210 Ad.c.	250 Ad.c.	270 Ad.c.
Max.Discharge Current	167Ad.c.	210 Ad.c.	250 Ad.c.	270 Ad.c.
Reverse Connect Protection	Yes			
PV Input				
No.of MPPT Tracker/Strings	2/2+2	3/2+2+2	3/2+2+2	3/2+2+2
Max.PVArray Power	12 kW	15kW	18 kW	22.5kW
Max.DC Voltage	525Vd.c.			
MPPT Voltage Range	120~500Vd.c.			195~500Vd.c.
Start-up Voltage	100 Vd.c.			
Max.Input Current	26+26+26Ad.c.			
Isc PV(Absolute Maximum)	39Ad.c.			
AC Output (EPS)				
EPS Rated Output Voltage	120Va.c./240Va.c. (Split Phase),208Va.c. (2/3Phase)			
EPS Rated Output Frequency	50 Hz/60 Hz			
EPS Rated Output Active Power	8kw	10 kW	12 kW	15 kW
EPS Rated Output Apparent Power	8 kVA	10 kVA	12 kVA	15 kVA
EPS Rated Output Current	33.4Aa.c.	41.7Aa.c.	50Aa.c.	62.5Aa.c.
Overload Capacity(Off Grid)	200%10s			
Efficiency				
MPPT Efficiency	99.50%			
California-efficiency	96.50%			
Max.Efficiency	97.50%			
Protection & Feature				
Insulation Monitoring	Yes			
Residual Current Monitoring	Yes			
Parallel Function	Yes			
Protection Degree	IP65			
Certifications	IEEE1547,CA RULE21,HECO SRD V2.0,UL1741,UL1741 SA/SB,CSA C22.2,UL1699B.			
Other Protection	Overload,Over temperature,Short circuit,Anti-islanding			
General Parameter				
Storage Temperature	-25 ~+60 (-13°F~+140°F)			
Operating Temperature	-25 ~+60 (-13°F~+140°F),>+45 (+113°F)Derating to 60%			
Humidity	0~95%(Non-condensing)			
Operating Altitude	4000m(>2000m Derating)			
Noise	<45dB			
Dimensions(W*H*D)	466*756*242 mm(18.35*29.76*9.35 in)			
Machine Weight/N.W.	45kg(99.21lbs)			
Display & Communication				
Display	LED+APP			
Interface	RS485/WiFi/CAN (Optional:Bluetooth/LAN/4G/Meter)			

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LFP Battery 12.8V

RS-12V-100~314Ah

- High security protection**
Comprehensive protection functions integrated with BMS intelligent protection
Fireproof casing material
- Smart Charging**
Fast charging design, built-in smart chip automatically adjusts the charging current automatically cuts off power when fully charged and does not get hot while charging
- Small size, long lifespan**
Charge-discharge cycle count ≥ 6000 times



TECHNICAL SPECIFICATION

Model	RS-12V-100Ah	RS-12V-150Ah	RS-12V-200Ah	RS-12V-314Ah
Capacity(Ah)	100	150	200	314
Watt Hours(Wh)	1280	1920	2560	4019
Voltage(V)	12.8			
Charge Voltage(V)	14.6			
Discharge Cut-Off Voltage(V)	10			
Max Recharge Current(A)	100	150	200	200
Max Continyouus Dischanrge(A)	100	150	200	200
Operting Temp(Charging)	0~55°C			
Operting Temp(Discharging)	-20~60°C			
Weight(Kg)	10±1	15±1	21±1	25±2
Size: L * W * H(mm)	339*185*218mm	359*185*218mm	483*185*240mm	367*190*245mm
Cycle Life	≥9000 (0.5C@ 25°C, 85% DOD)			
Design Lifespan (Years)	5			
Security and Authentication	CE			
Transportation	UN38.3			
IP rating	IP65			



LFP Battery 51.2V 100Ah

RSL-05K-WM

- Superior Core Performance**
Up to 2A auto-balancing and fast-charging efficiency, extends lifespan significantly
- Enhanced Safety Protection**
Pack-level aerosol fire suppression with local + remote dual protection
- Smart & Intuitive Interaction**
Standalone color touchscreen for intuitive local operation
- Excellent Environmental Adaptability**
High charge/discharge efficiency minimizes downtime and boosts productivity



TECHNICAL SPECIFICATION

Model	RSL-05K-WM
Rated voltage (V)	51.2
Rated capacity (Ah)	100
Rated energy of battery (kWh)	5.12
Voltage range (V)	44.8-57.6
Recommended charge/discharge current (A)	50
Max. charge/discharge current (A)	100
Charging temperature (°C)	0-55
Discharge temperature (°C)	-20-60
Storage temperature (°C)	-10~40
Size: Length * Width * Height (mm)	580*750*92 580*400*187
Weight (kg)	45
Port communication	RS485、RS232、CAN
Wireless communication	WiFi、Bluetooth
Compatible with inverter	Growatt, Solis, Goodwe, Sol-Ark, SRNE, DEYE, PYLONTECH, LUXPOWER, SOFAR, MPPOSOLAR, SMA, Studer, VICTRON, Voltronic Power
Cycle life	≥10000 (0.5C@ 25°C, 90% DOD)
Installation method	Rack、Wall-mounted、Stand-mounted
Design lifespan (years)	15
Security and Authentication	CE
Transportation	UN38.3
Auto-balancing	2A
IP rating	IP21
Parallel capacity	16



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LFP Battery 51.2V 100Ah

RSL-05K-SM

• Superior Core Performance

Up to 2A auto-balancing and fast-charging efficiency, extends lifespan significantly

• Enhanced Safety Protection

Pack-level aerosol fire suppression with local + remote dual protection

• Smart & Intuitive Interaction

Standalone color touchscreen for intuitive local operation

• Excellent Environmental Adaptability

High charge/discharge efficiency minimizes downtime and boosts productivity

• Flexible Installation

Wall-mountable, stackable, and rack-mountable



TECHNICAL SPECIFICATION

Model	RSL-05K-SM	
Rated voltage (V)	51.2	
Rated capacity (Ah)	100	
Rated energy of battery (kWh)	5.12	
Voltage range (V)	44.8-57.6	
Recommended charge/discharge current (A)	50	
Max. charge/discharge current (A)	100	
Charging temperature (°C)	0~55	
Discharge temperature (°C)	-20~60	
Storage temperature (°C)	-10~40	
Size: Length * Width * Height (mm)	440*760*91	440*440*133
Weight (kg)	45	
Port communication	RS485、RS232、CAN	
Wireless communication	WiFi、Bluetooth	
Compatible with inverter	Growatt, Solis, Goodwe, Sol-Ark, SRNE, DEYE, PYLONTECH, LUXPOWER, SOFAR, MPPSOLAR, SMA, Studer, VICTRON, Voltronic Power	
Cycle life	≥10000 (0.5C@25°C, 90% DOD)	
Installation method	Rack、Wall-mounted、Stand-mounted	
Design lifespan (years)	15	
Security and Authentication	CE	
Transportation	UN38.3	
Auto-balancing	2A	
IP rating	IP21	
Parallel capacity	16	

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LFP Battery 51.2V 200Ah

RSL-10K-WM

• Superior Core Performance

Up to 2A auto-balancing and fast-charging efficiency, extends lifespan significantly

• Enhanced Safety Protection

Pack-level aerosol fire suppression with local + remote dual protection

• Smart & Intuitive Interaction

Standalone color touchscreen for intuitive local operation

• Excellent Environmental Adaptability

High charge/discharge efficiency minimizes downtime and boosts productivity



TECHNICAL SPECIFICATION

Model	RSL-10K-WM
Rated voltage (V)	51.2
Rated capacity (Ah)	200
Rated energy of battery (kWh)	10.24
Voltage range (V)	44.8-57.6
Recommended charge/discharge current (A)	100
Max. charge/discharge current (A)	200
Charging temperature (°C)	0~55
Discharge temperature (°C)	-20~60
Storage temperature (°C)	-10~40
Size: Length * Width * Height (mm)	600*750*178
Weight (kg)	90.6
Port communication	RS485、RS232、CAN
Display	LED+LCD
Wireless communication	WiFi、Bluetooth
Compatible with inverter	Growatt, Solis, Goodwe, Sol-Ark, SRNE, DEYE, PYLONTECH, LUXPOWER, SOFAR, MPPSOLAR, SMA, Studer, VICTRON, Voltronic Power
Cycle life	≥10000 (0.5C@25°C, 90% DOD)
Design lifespan (years)	15
Security and Authentication	CE
Transportation	UN38.3
Auto-balancing	2A
IP rating	IP21
Parallel capacity	8

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LFP Battery 51.2V 314Ah
RSL-16K-FS

- **Superior Core Performance**
Up to 2A auto-balancing and fast-charging efficiency, extends lifespan significantly
- **Enhanced Safety Protection**
Pack-level aerosol fire suppression with local + remote dual protection



- **Smart & Intuitive Interaction**
Standalone color touchscreen for intuitive local operation
- **Excellent Environmental Adaptability**
High charge/discharge efficiency minimizes downtime and boosts productivity

TECHNICAL SPECIFICATION

Model	RSL-16K-FS
Rated voltage (V)	51.2
Rated capacity (Ah)	314
Rated energy of battery (kWh)	16.08
Voltage range (V)	44.8-57.6
Recommended charge/discharge current (A)	100
Max. charge/discharge current (A)	200
Charging temperature (°C)	0~55
Discharge temperature (°C)	-20~60
Storage temperature (°C)	-10~40
Dimension: L*W*H (mm)	553*255*801
Weight (kg)	117
Port communication	RS485、RS233、CAN
Display	LED+Liquid crystal
Wireless communication	WiFi、Bluetooth
Compatible with inverter	Growatt, Solis, Goodwe, Sol-Ark, SRNE, DEYE, PYLONTECH, LUXPOWER, SOFAR, MPPSOLAR, SMA, Studer, VICTRON, Voltronic Power
Cycle life	≥9000 (0.5C@ 25°C, 90% DOD,200A)
Design lifespan (years)	15
Security and Authentication	CE
Transportation	UN38.3
Auto-balancing	2A
IP rating	IP65
Parallel capacity	4



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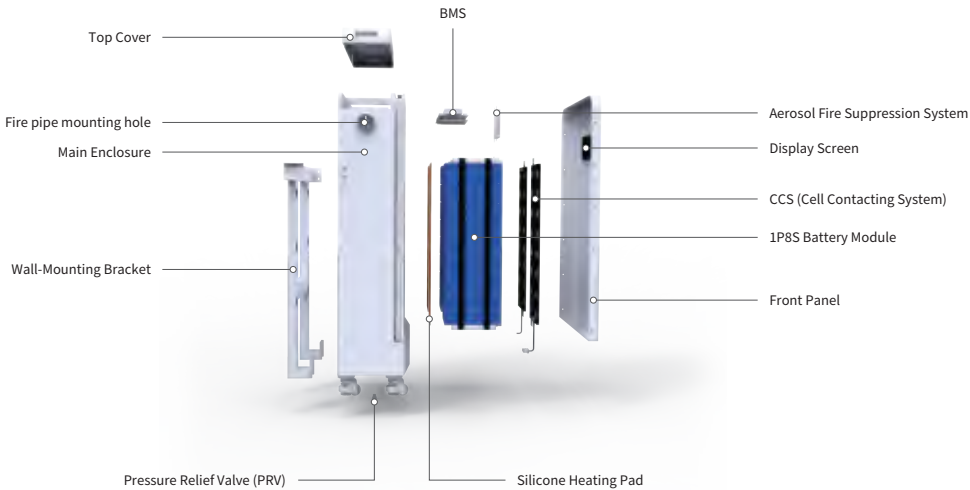


LFP Battery 51.2V 314Ah
RSL-16K-US

- **Superior Core Performance**
Up to 2A auto-balancing and fast-charging efficiency, extends lifespan significantly
- **Smart & Intuitive Interaction**
Standalone color touchscreen for intuitive local operation; built-in Bluetooth & WiFi for local debugging and remote monitoring.



- **Enhanced Safety Protection**
Pack-level aerosol fire suppression with local + remote dual protection
- **Excellent Environmental Adaptability**
High charge/discharge efficiency minimizes downtime and boosts productivity



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TECHNICAL SPECIFICATION

Model	RSL-16K-US
Rated Voltage (V)	51.2
Rated Capacity (Ah)	314
Rated Energy of Battery (kWh)	16.08
Voltage Range (V)	44.8-57.6
Recommended Charge/Discharge Current (A)	100
Max. Charge/Discharge Current (A)	200
Charging Temperature (°C)	0~55
Discharge Temperature (°C)	-20~60
Storage Temperature (°C)	-10~40
Size: Length * Width * Height (mm)	1085*560*292 (with wall-mounting bracket)
Weight (kg)	130±3
Port Communication	RS485、RS233、CAN
Display	LED+Liquid crystal
Wireless Communication	WiFi、Bluetooth
Compatible with Inverter	Growatt, Solis, Goodwe, Sol-Ark, SRNE, DEYE, PYLONTECH, LUXPOWER, SOFAR, MPPSOLAR, SMA, Studer, VICTRON, Voltronic Power
Cycle life	≥9000 (0.5C@ 25°C, 90% DOD,200A)
Design Lifespan (Years)	15
Security and Authentication	CE
Transportation	UN38.3
Auto-Balancing	2A
IP Rating	IP65
Parallel Capacity	4



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LFP Battery 51.2V 314Ah

RSL-16K-SM

- Superior Core Performance**
Up to 2A auto-balancing and fast-charging efficiency, extends lifespan significantly
- Smart & Intuitive Interaction**
Standalone color touchscreen for intuitive local operation
- Excellent Environmental Adaptability**
High charge/discharge efficiency minimizes downtime and boosts productivity



TECHNICAL SPECIFICATION

Model	RSL-16K-SM
Rated Voltage (V)	51.2
Rated Capacity (Ah)	314
Rated Energy of Battery (kWh)	16.08
Voltage Range (V)	44.8-57.6
Recommended Charge/Discharge Current (A)	100
Max. Charge/Discharge Current (A)	200
Charging Temperature (°C)	0-55
Discharge Temperature (°C)	-20~60
Storage Temperature (°C)	-10~40
Dimension: L*W*H (mm)	760*430*330
Weight (kg)	125±5kg
Port Communication	RS485、RS233、CAN
Display	LED+Liquid crystal
Wireless Communication	WiFi、Bluetooth
Compatible with Inverter	Growatt, Solis, Goodwe, Sol-Ark, SRNE, DEYE, PYLONTECH, LUXPOWER, SOFAR, MPPSOLAR, SMA, Studer, VICTRON, Voltronic Power
Cycle Life	≥9000 (0.5C@ 25°C, 90% DOD,200A)
Design Lifespan (years)	15
Security and Authentication	CE
Transportation	UN38.3
Auto-Balancing	2A
IP Rating	IP54
Parallel Capacity	5

*The data in this table is for reference only, and is subject to actual delivery.



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LFP Battery 51.2V 314Ah

RSL-48K-A

- Superior Core Performance**
Up to 2A auto-balancing and fast-charging efficiency, extends lifespan significantly
- Smart & Intuitive Interaction**
Standalone color touchscreen for intuitive local operation
- Excellent Environmental Adaptability**
High charge/discharge efficiency minimizes downtime and boosts productivity



TECHNICAL SPECIFICATION

Model	RSL-48K-A
Rated Voltage (V)	51.2
Rated Capacity (Ah)	314
Rated Energy of Battery (kWh)	48
Voltage Range (V)	44.8-57.6
Recommended Charge/Discharge Current (A)	100
Max. Charge/Discharge Current (A)	200
Charging Temperature (°C)	0~55
Discharge Temperature (°C)	-20~60
Storage Temperature (°C)	-10~40
Dimension: L* W* H (mm)	880*656*1180
Weight (kg)	510±5kg
Port Communication	RS485、RS233、CAN
Display	LED+Liquid crystal
Wireless Communication	WiFi、Bluetooth
Compatible with Inverter	Growatt, Solis, Goodwe, Sol-Ark, SRNE, DEYE, PYLONTECH, LUXPOWER, SOFAR, MPPSOLAR, SMA, Studer, VICTRON, Voltronic Power
Cycle Life	≥9000 (0.5C@ 25°C, 90% DOD)
Design Lifespan (years)	15
Security and Authentication	CE
Transportation	UN38.3
Auto-Balancing	2A
IP Rating	IP65
Parallel Capacity	4



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LFP Battery 102V 50Ah

RSL-10~30K-SM

- Strong adaptability**
Features high charge-discharge efficiency, reducing downtime and boosting operational efficiency.
- Easy Installation**
Wiring-free and freely stackable. One person can easily install it in just 15 minutes saving both time and effort.
- IP54 Protection**
Suitable for both indoor and outdoor installation.
- Smart Management**
Real-time battery health monitoring
remote fault diagnosis
and one-click smart upgrades.



TECHNICAL SPECIFICATION

Model	RSH-10K-SM	RSH-15K-SM	RSH-20K-SM	RSH-25K-SM	RSH-30K-SM
Product Pattern					
Battery Module Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Battery Module Quantity	2	3	4	5	6
Nominal Energy	10.24kWh	15.36 kWh	20.48 kWh	25.60 kWh	30.72kWh
Usable Energy	9.728kWh	14.59kWh	19.456kWh	24.32kWh	29.184kWh
Operating Voltage	179~230V	268~345V	358~460V	448~576V	537~691V
Nominal Voltage	204V	307V	409V	512V	614V
Rated capacity (Ah)	50Ah	50Ah	50Ah	50Ah	50Ah
Max. Charge/Discharge Current	50A	50A	50A	50A	50A
Depth of Discharge(DOD)	95%	95%	95%	95%	95%
Dimension: L* W* H (mm)	580/320/610	580/320/810	580/320/1010	580/320/1210	580/320/1410
Weight[kg]	96	138	180	222	264
Charging temperature (°C)	0~50°C				
Discharging temperature (°C)	-10~50°C				
Port Communication	CAN/RS485				
Cycle Life	≥9000				
IP Rating	IP54				
Security and Authentication	UN38.3/CE				
Compatible with Inverter	Growatt, Solis, Goodwe, Sol-Ark, SRNE, DEYE, PYLONTECH, LUXPOWER, SOFAR, MPPSOLAR, SMA, Studer, VICTRON, Voltronic Power				



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LFP Battery 51.2V 314Ah

RSL-16K-RM

- High Cycle Life**
Can achieve 6000 cycles at 90% state of charge, effectively reducing total cost of ownership
- Highly Adaptable**
Strong environmental adaptability, can withstand up to 60 C
- Fast Charging Speed**
High charge and discharge efficiency, reducing equipment downtime and saving more time
- Safer**
Real-time monitoring of BMS for bettersystem protection
- Easy To Store**
Higher specific energy (Wh/kg); 1/3 the mass of SLA batteries
Extremely low self-discharge rate (LSD); No sulfation risk
Up to 6 months shelf life



TECHNICAL SPECIFICATION

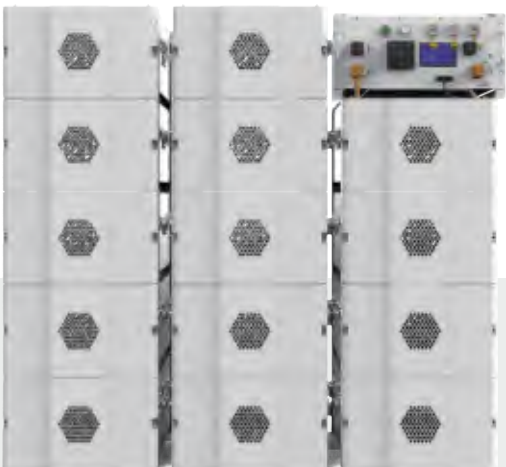
Model	RSL-16K-RM	
Rated voltage (V)	51.2	
Rated capacity (Ah)	314	
Rated energy of battery (kWh)	16.08	
Weight (kg)	115	
Dimensions: Length * Width * Height (mm)	801*532*233	
Recommended charging current (A)	157	
Recommended discharge current (A)	157	
Charging temperature (°C)	0~55	
Discharge temperature (°C)	-20~60	
Storage temperature (°C)	-10~40	
Operating humidity	10%-95% 【No condensation】	
Storage humidity	5%-95% 【No condensation】	
Multi-module configuration	3PC Series (Min)	15PC Series (Max)
Rated voltage (V)	153.6	768
Rated energy (kWh)	48.23	241.15
Operating voltage range (V)	134.4~172.8	672~864
Size: L * W * H (mm)	850*562*1117	850*1762*1616
Weight (kg)	460	1990
Port communication	CAN	
IP rating	IP20	
Compatible with inverter	Growatt, Solis, Goodwe, Sol-Ark, SRNE, DEYE, PYLONTECH, LUXPOWER, SOFAR, MPPSOLAR, SMA, Studer, VICTRON, Voltronic Power	
Cycle life	≥9000 (0.5C@ 25°C , 90% DOD)	
Design lifespan (years)	15	



LFP Battery 51.2V 314Ah

RSL-16K-SM

- High Cycle Life**
Can achieve 6000 cycles at 90% state of charge, effectively reducing total cost of ownership
- Highly Adaptable**
Strong environmental adaptability, can withstand up to 60 C
- Fast Charging Speed**
High charge and discharge efficiency, reducing equipment downtime and saving more time
- Safer**
Real-time monitoring of BMS for bettersystem protection
- Easy To Store**
Higher specific energy (Wh/kg); 1/3 the mass of SLA batteries
Extremely low self-discharge rate (LSD); No sulfation risk
Up to 6 months shelf life



TECHNICAL SPECIFICATION

Model	RSL-16K-SM	
Rated voltage (V)	51.2	
Rated capacity (Ah)	314	
Rated energy of battery (kWh)	16.08	
Weight (kg)	119.4	
Dimensions: Length * Width * Height (mm)	798*478*278	
Recommended charging current (A)	157	
Recommended discharge current (A)	157	
Charging temperature (°C)	0~55	
Discharge temperature (°C)	-20~60	
Storage temperature (°C)	-10~40	
Operating humidity	10%-95% 【No condensation】	
Storage humidity	5%-95% 【No condensation】	
Multi-module (connection)	4PC Series (Min)	15PC Series (Max)
Rated voltage (V)	153.6	768
Rated energy (kWh)	48.23	241.15
Operating voltage range (V)	179.2~230.4	672~864
Size: L * W * H (mm)	798*478*1367	798*1500*1645
Weight (kg)	501.4	1814.8
Port communication	CAN	
IP rating	IP20	
Compatible with inverter	Growatt, Solis, Goodwe, Sol-Ark, SRNE, DEYE, PYLONTECH, LUXPOWER, SOFAR, MPPSOLAR, SMA, Studer, VICTRON, Voltronic Power	
Cycle life	≥9000 (0.5C@ 25°C , 90% DOD)	
Design lifespan (years)	15	



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Industrial And Commercial Energy Storage Cabinet
100kWh/ 50kW

RS-100K-A

- High Cycle Life**
Can achieve 6000 cycles at 90% state of charge, effectively reducing total cost of ownership
- Highly Adaptable**
Strong environmental adaptability, can withstand up to 60 C
- Fast Charging Speed**
High charge and discharge efficiency, reducing equipment downtime and saving more time
- Safer**
Real-time monitoring of BMS for bettersystem protection
- Easy To Store**
Higher specific energy (Wh/kg); 1/3 the mass of SLA batteries
Extremely low self-discharge rate (LSD); No sulfation risk
Up to 6 months shelf life



TECHNICAL SPECIFICATION

Model	RS-100K-A
Type	100kWh/50kW
Battery cell	LFP314/280Ah
Battery pack	51.2V 314/280Ah
Rated voltage (V)	358.4V(7 module series)
Rated energy (kWh)	112.53kWh/100.35kWh
Voltage range (V)	280~403
Inverter	Deye
Grid type	Three-Phase four-Wire
Rated charging and discharging power (kW)	50
Rated grid voltage (V)	AC380
Applicable grid frequency (Hz)	50
Rated current (A)	76
Total distortion rate of current harmonics	<3%
Power factor range	1(Ahead of schedule)-1(Lag)
Size: W*D*H (mm)	1200*803*2375
Weight (kg)	1300
Level	IP54
Operating temperature range (°C)	-20~50°C
Relative humidity	0~95%
Altitude (m)	<2000
Cooling method	Air cooling (refrigeration, ventilation, heating)
Noise	≤75dB
System efficiency	≥90%
Fire protection system	Integrated
Messaging	RS485, CAN



Industrial And Commercial Energy Storage Cabinet
241kWh/ 125kW

RS-241K-A

- High Cycle Life**
Can achieve 6000 cycles at 90% state of charge, effectively reducing total cost of ownership
- Highly Adaptable**
Strong environmental adaptability, can withstand up to 60 C
- Fast Charging Speed**
High charge and discharge efficiency, reducing equipment downtime and saving more time
- Safer**
Real-time monitoring of BMS for bettersystem protection
- Easy To Store**
Higher specific energy (Wh/kg); 1/3 the mass of SLA batteries
Extremely low self-discharge rate (LSD); No sulfation risk
Up to 6 months shelf life



TECHNICAL SPECIFICATION

Model	RS-241K-A
Type	241kWh/125kW
Battery cell	LFP314/280Ah
Battery pack	51.2V 314/280Ah
Rated voltage (V)	768V(15 module series)
Rated energy (kWh)	241.15kWh/215.04kWh
Voltage range (V)	672~864
Inverter	Solis
Grid type	Three-Phase four-Wire
Rated charging and discharging power (kW)	125
Rated grid voltage (V)	AC380
Applicable grid frequency (Hz)	50
Rated current (A)	189
Total distortion rate of current harmonics	<3%
Power factor range	1(Ahead of schedule)-1(Lag)
Size: W*D*H (mm)	1300*1260*2375
Weight (kg)	2500(Without PCS)
Level	IP54
Operating temperature range (°C)	-20~50°C
Relative humidity	0~95%
Altitude (m)	<2000
Cooling method	Air cooling (refrigeration, ventilation, heating)
Noise	≤75dB
System efficiency	≥90%
Fire protection system	Integrated
Messaging	RS485, CAN



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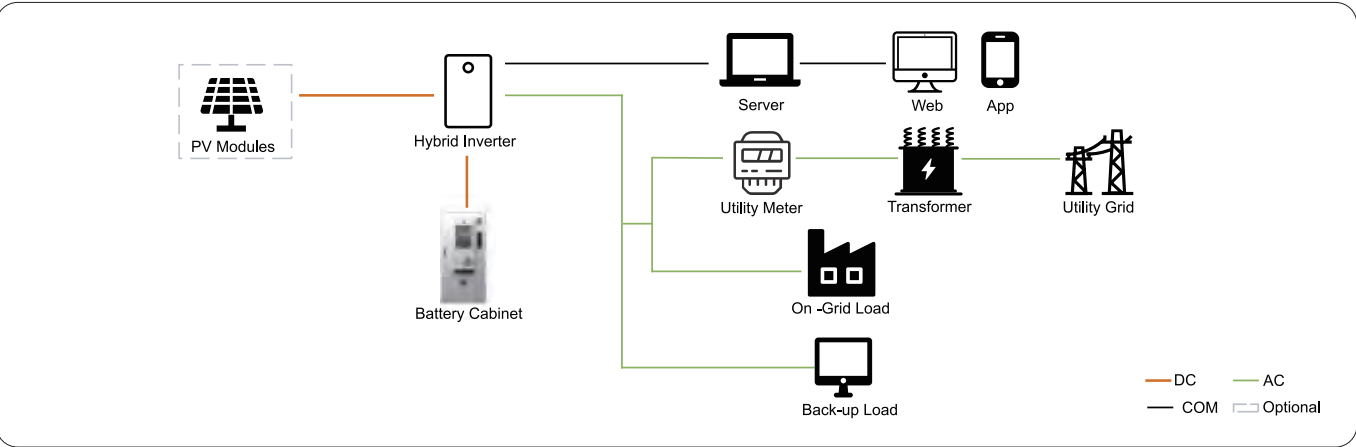




Air Cooling Commercial & Industrial Battery System Solution

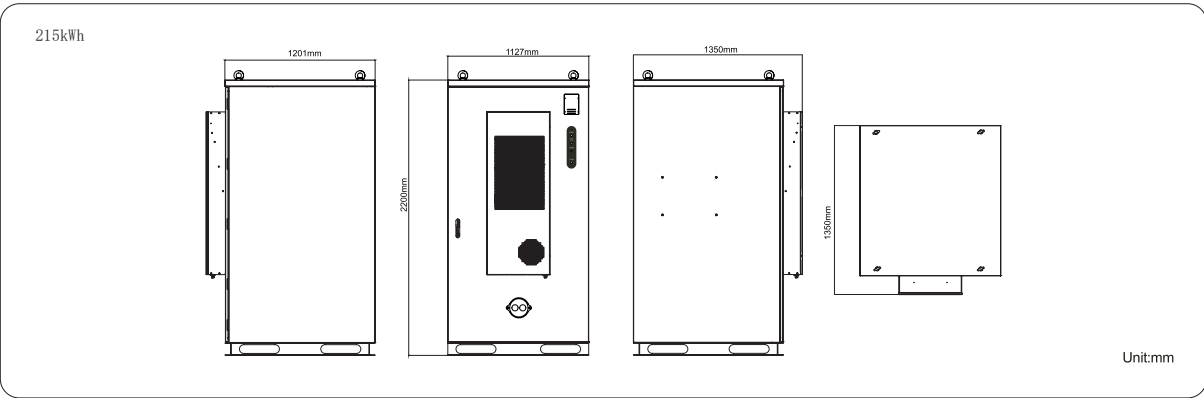
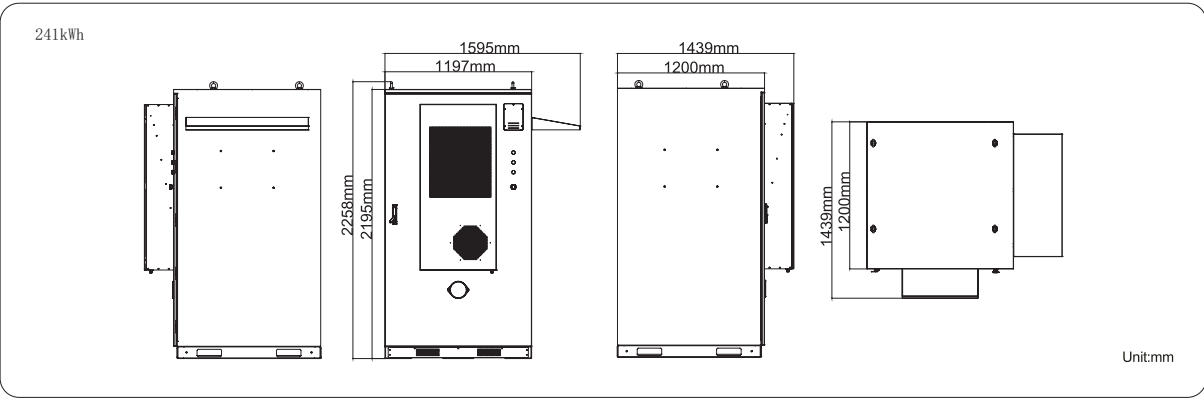
215/ 241kWh_{BATTERY}

- Flexible**
Highly integrated
All pre-assembled
Extendable
- Efficient**
Intelligent cooling system
Higher system efficiency
- Reliable**
DC electric circuit safety protection
Multi level battery protection
Fire suppression system
- Smart**
State monitoring and faults record
Battery performance monitoring and logging



TECHNICAL SPECIFICATION

Model	RS215	RS241
cell capacity	280Ah	314Ah
Nominal Battery system Energy	215kWh	241 kWh
Nominal Battery System Voltage	768Vdc	
Battery System Working Voltage	672 ~ 852Vdc	
Rated Output Power	100kW	125kW
Max. AC Output Power	100kVA	137.5kVA
THDI	<3%(at nominal power)	
Nominal Grid Voltage	400V,3L+N+PE	
Nominal Grid Frequency	50/60Hz	
Power Factor Range	0.8 leading ... 0.8 lagging	
Weight	1800kg	2000kg
Dimension: W*D*H (mm)	1127 x 1350 x 2200mm	1595 x 1439x 2195mm
IP Protection	IP54	
Anti-corrosion Level	C3	
Max. Operation Altitude	<2000m	
Charging Temp. Range	0~45°C	
Discharging Temp. Range	-20~50°C	
Operation Humidity Range	5~95 %(non-condensing)	
Communication Port	CAN/ RS485	
Compliance	IEC61000;IEC62619;IEC62477;EN50549	
Expansion	Max.4 cabinets connected in parallel	

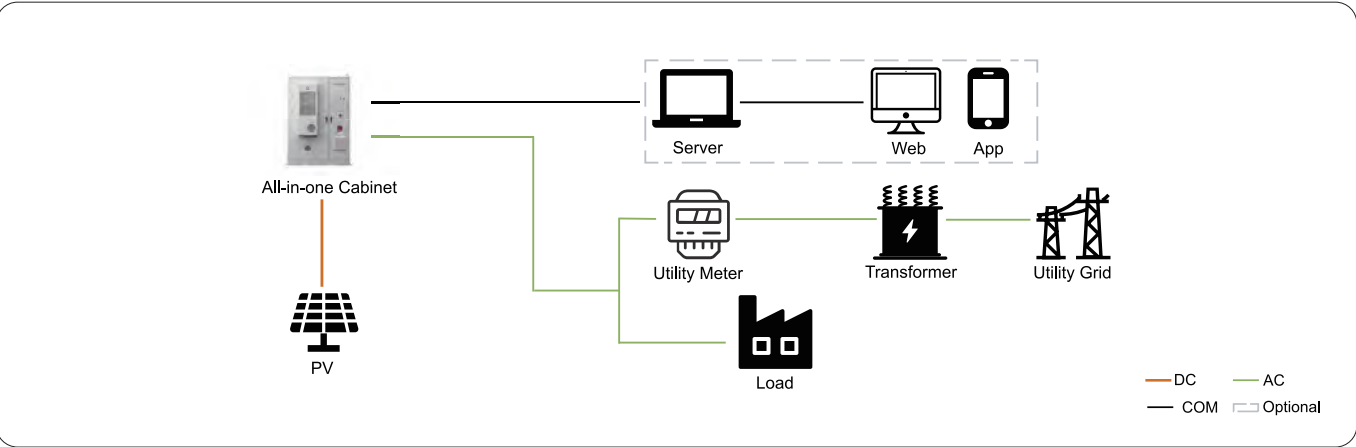




Air Cooling Commercial & Industrial Battery System Solution

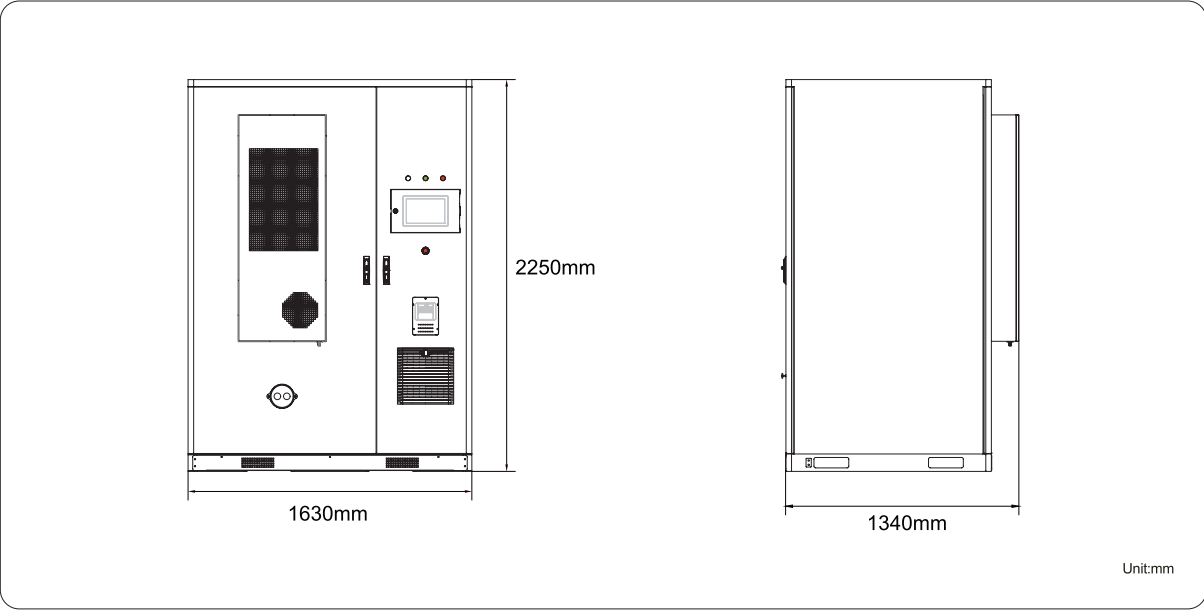
100kW_{PCS}/ 215kWh_{BATTERY}

- Flexible**
Highly integrated
All pre-assembled
Extendable
- Efficient**
Intelligent cooling system
Higher system efficiency
- Reliable**
DC electric circuit safety protection
Multi level battery protection
Fire suppression system
- Smart**
State monitoring and faults record
Battery performance monitoring and logging



TECHNICAL SPECIFICATION

Model	RSESS215-100K
Main Parameter	
AC Output Power(kW)	100
AC Output Frequency and Voltage	50/60Hz; 380/400Vac
Grid Type	3L/N/PE
Battery Operating Voltage (Vd.c.)	660~864
Energy (kWh)	215
Dimension: W*D*H (mm)	1630x1340x2250
Weight Appr.(kg)	2000
Battery Operating Voltage (Vd.c.)	DC: 650~935 (grid on) / DC: 700~935 (grid off)
Max. RTE	88%
System Communication	ETH/ 4G
System Operating Temperature Range(°C)	-20~ 50(>45 Derating)
Max. Working Altitude (m)	≤3000
IP Rating of Enclosure	IP54
Anti-Corrosion Grade	C3
System Certification	IEC 61000 , IEC 62619
Warranty	5 years or cycle Life ≥ 9000 (@25c± 2c , 0 . 5c / 0 . 5c , 70%EOL)
Converter Specification	
AC Output Rated Current(A)	152
Max. AC Output Current(A)	167
Max. Number of Parallel(off-grid)	4 pcs (off-grid)
Peak Power	1.1 times of rated power
Power Factor	-1~1
THD	< 3%
DC Injection Current	<0.5In
Relative Humidity	15%~85%(No Condensing)
Dimension: W*D*H (mm)	485x 705x257
Communication	CAN/ RS485
Overvoltage Protection	DC Type II/ AC Type III
Protection Level	Class 1
Grid Regulation	EN50549, EN62477, IEC61000
Max. Efficiency	97.6 %



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Liquid Cooling Commercial & Industrial Energy Storage System

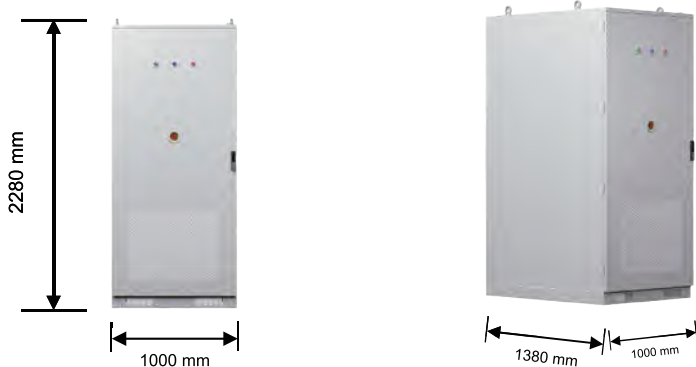
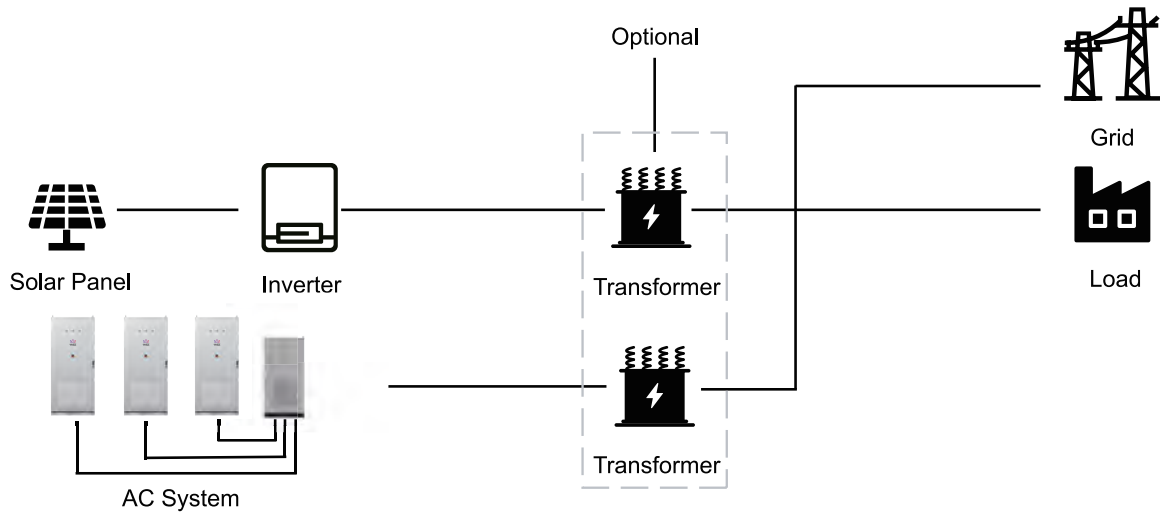
125kW_{PCS}/ 261kWh_{BATTERY}

- Standard cabinet design with partitioned isolation, advanced liquid cooling temperature control, combustible gas detection, and perfluorohexanone firesuppression technology ensure system safety and controllability.
- Stand-alone string design with zero parallel power loss; High-efficiency three-level topology PCS technology maximizes system conversion efficiency.



TECHNICAL SPECIFICATION

Model		RS5S261-125K
DC Side Parameters		
Battery Type		LiFePO4
Configuration		1P260S
Rated Capacity		314Ah
Rated Energy		261kWh
Rated Voltage		832V
Rated Power		125kW
Rated Charge / Discharge Rate		0.5C
Operating Voltage Range		702~936V
Standard Charge/Discharge Current		157/157A
Cooling Method		Liquid Cooling
Fire Protection System		Aerosol
PCS Parameters		
Rated AC Power		125kW
Maximum AC Overload Capacity		150kW
Rated Charge / Discharge Current		182A
Maximum Charge / Discharge Current		218A
Allowed Grid Voltage Range		300~460V _a C
Allowed Grid Frequency		50/60Hz
THDi		<3% (at rated power)
Power Factor		-0.99~+0.99
Wiring Method		Three-phase Four-wire
Cooling Method		Intelligent Air Cooling
System Parameters		
Charging Operating Temperature		0~55℃
Discharging Operating Temperature		-20~55℃
Storage Temperature Range		-20~35℃
Noise		<75dB
Dimension: W*D*H (mm)		1000±2 * 1380±2 * 2280±5mm
Weight		2.5±0.1t
Corrosion Resistance Level		C5
Protection Level	Battery Compartment	IP55
	Electrical Compartment	IP54
Allowed Relative Humidity		0~95%(non-condensing)
Allowed Altitude		≤4000 (derating above 2000m)
Communication Methods		RS485, Etheknet
Certification Standards		UN38.3



Unit:mm



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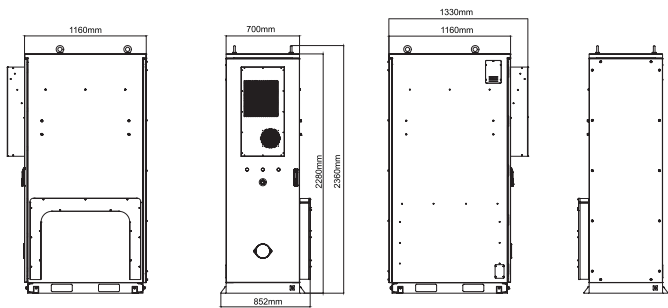




Air Cooling Commercial & Industrial Battery System Solution

72/86/100kWh_{BATTERY}

- Flexible**
Highly integrated
All pre-assembled
Extendable
- Efficient**
Intelligent cooling system
Higher system efficiency
- Reliable**
DC electric circuit safety protection
Multi level battery protection
Fire suppression system
- Smart**
State monitoring and faults record
Battery performance monitoring and logging



TECHNICAL SPECIFICATION

Model	RSSESS72	RSSESS86	RSSESS100
Energy (kWh)	72kWh	86kWh	100kWh
Battery operating voltage (vdc.)	224 ~284Vdc.	268.8 ~304.8Vdc.	313.6 ~397.6Vdc.
Dimension: W*D*H (mm)	852 x 1330 x 2280mm		
weight Appr. (kg)	≤ 1100kg	≤ 1200kg	≤ 1300kg
Max. RTE	88%		
System communication	CAN / RS485		
System operaing Temperature Range (C)	-20 ~ 50		
Max. working Altitude (m)	3000 (3000m derating)		
IP Raing of Endosure	IP55		
Anti-corrosion Grade	C3		
system cerifcalon	IEC 61000 , IEC 62619		
warranty	5 years or cycle Life ≥ 9000 (@25c± 2c , 0 . 5c / 0 . 5c , 70%EOL)		



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LFP Battery 1.2MWh 20-FOOT CONTAINERIZED ENERGY STORAGE SYSTEM

- Long Lifespan**
The design lifespan exceeds 15 years
- Highly Adaptable**
It has strong environmental adaptability,
capable of adapting to temperatures up to 50 C
- Modular Design**
Modular design enhances operational efficiency
and narrows the scope of fault impact
- Flexible Deployment**
Flexible deployment and scalable space
- Safer**
A modular fire protection system is employed in the
engine room, which is separated by safety isolation
partitions
- Higher Efficiency**
Eliminate DC circulating currents between clusters,
increase the system's available capacity by 15%, and
enhance efficiency by 2%



TECHNICAL SPECIFICATION

Model	20-FOOT CONTAINERIZED ENERGY STORAGE SYSTEM
Battery type	LiFePO4
Rated capacity (Ah)	1570
Rated energy (MWh)	1.2
Voltage range (V)	672~864
Rated voltage (V)	768
Efficiency	96%
Depth of discharge	90%
System charging rate	0.5C
System discharge rate	0.5C~1C
Dimension: L * W * H (mm)	6058*2438*2896
Weight (t)	16
Operating temperature (°C)	0-50
Temperature control method	Air cooling
Altitude (m)	<2000
Humidity	5%-95%
Battery module configuration	75 pieces of 51.2V 314Ah
Design lifespan (years)	above 15
Combination method	parallel connection
Communication mode	CANBUS/Modbus TCP/IP



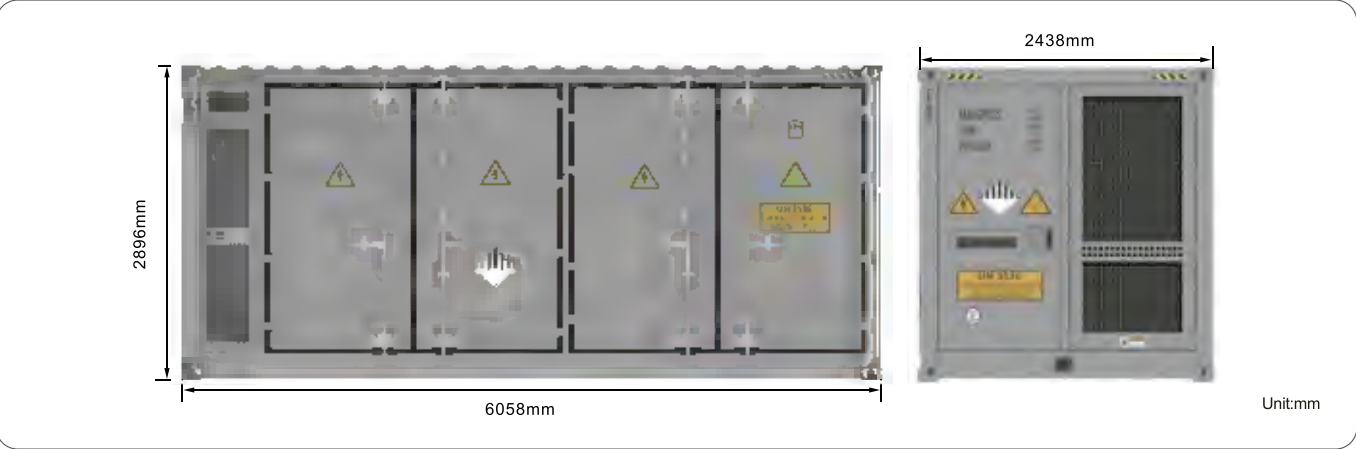
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5MWH Battery Container

- Module-level fire protection with partitioned safety isolation within the cabin
- Modular design enhances operational efficiency and reduces fault impact areas
- String architecture enables 100% depth of discharge (DoD) for both charging and discharging
- Flexible deployment and scalable expansion
- Comprehensive dynamic thermal management
- Elimination of DC circulating currents between clusters, increasing system usable capacity by 15% and improving efficiency by 2%



TECHNICAL SPECIFICATION	
Model	RSESS000
Battery type	LiFePO4
Rated capacity	314Ah
Configuration	12*(1P104S*4)
Nominal Energy(kWh)	5015.961
Rated Voltage (V)	1331.2
Operating Voltage Range(V)	1164.8~1497.6
Max.Charge And Discharge Rate	0.5C@25°C
Battery System Cycle Efficiency	≥93.5% (FAT Standard)
System Data	
Dimension: W*D*H (mm)	6058*2438*2896
Net Weight(T)	42.5
Ingress Protection	IP55
Noise Emission(dB)	≤85
Operating Altitude (m)	≤2000
Cooling	Forced Liquid Cooling
Coolant	50% ethylene glycol in water
Fire Extinguishing System	Aerosol Fire Protection System
Corrosion-proof Grade	C4
Communication Mode	Modbus-TCP/ IEC61850 / IEC104

