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Version: April 11, 2024, Residential Energy Storage System



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Residential Energy Storage System



ALL-IN-ONE

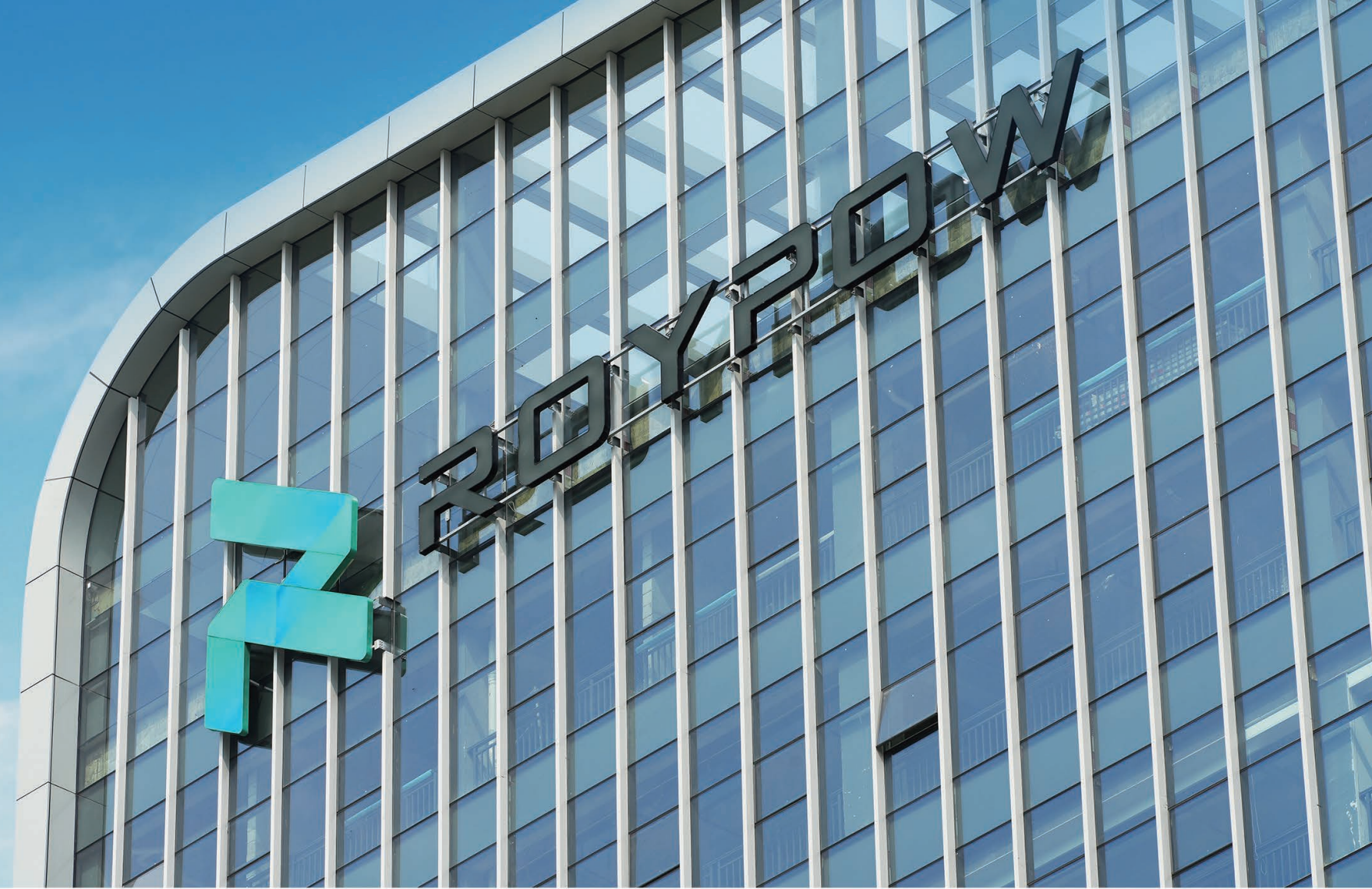
Intelligent Technology
Coexisting With Nature Powers Your Home



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ROYPOW
Your Trusted Partner



Contents

01 / Meet ROYPOW RESS

02 / Why ROYPOW RESS

03 / ROYPOW RESS

04 / RBmax5.1, Advanced
LiFePO4 Battery Pack

05 / Sun Series All-In-One
Energy Storage System

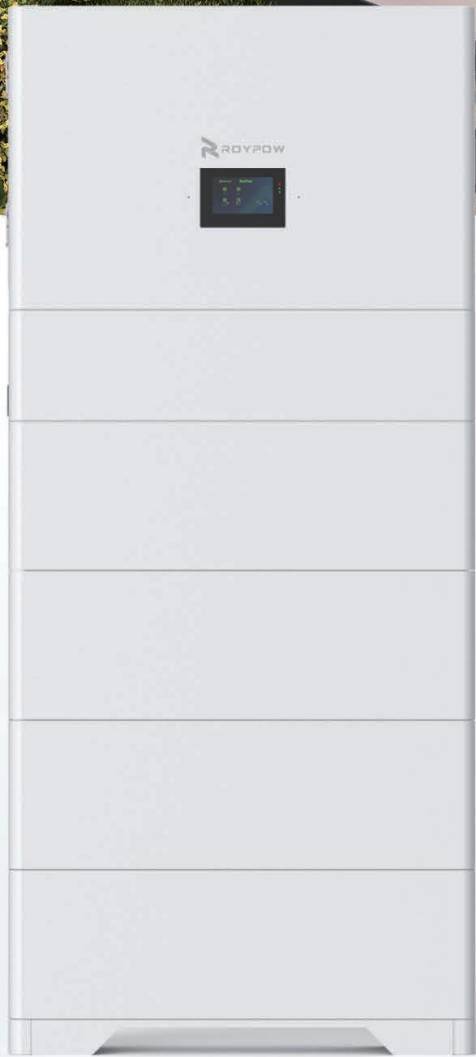
06 / Powerful Monitoring
& Data Platform

07 / About Us



ALL-IN-ONE

Integrated Inverter and LFP Battery Module



Meet ROYPOW RESS - Compact, Intelligent, and Safe.

ROYPOW RESS combines the most advanced battery management system with super power supply capacity to provide sustainable & green energy for your working and family usages all day.

The all-in-one, modular system saves space and simplifies the installation and operation processes. Adopting a modern and minimalist style design, it fits any home environment, achieving the best of both worlds for practicality and aesthetics.



ROYPOW RESS is a fully-integrated LiFePO4 battery system for residential usages. The rechargeable lithium-ion battery with long design life improves solar self-consumption.



Bi-directional energy storage system supports backup mode.



The electrical interface provides a simple connection to any houses or buildings. Simple installation and user-friendly APP monitoring facilitate your usage of clean energy.

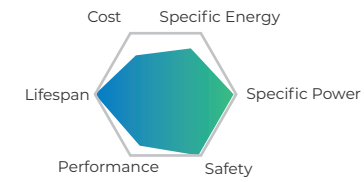




Why ROYPOW RESS?



Safety



LiFePO₄ batteries ensure premium electrical characteristics without any safety issues.



Integrated Arc Fault Circuit Interrupters (AFCI) & Rapid Shut Down (RSD).



Enhanced safety with aerosol fire protection.



IP65 Rating, safe and reliable while using.

Core Value

Application	Energy Transformation	Energy Conservation
	Smart Home	Capitalization
Platform	Prediction	Scheduling
	AI Algorithm	Big Data
Communication Control	WI-FI Power Carrier	Cloud Communication
	Hardware Power Generation / Transformation / Distribution	



Lifelong Free
Access to Monitoring
Via Web and APP



New Function and
Latest Version Upgrades
Available Remotely

ROYPOW Cloud Platform

With full-on visual experience, user-friendly data display and all-round monitoring functions, ROYPOW makes smart energy management easier for everyone.

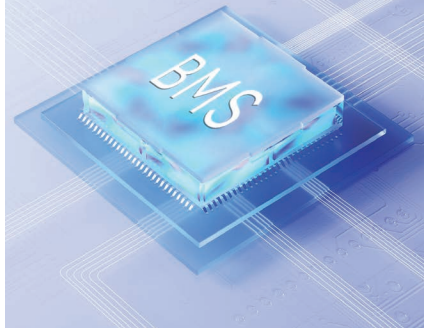





IoT
Compatible



Set Parameters Control
and Build VPP

Battery management system (BMS)



-  ROYPOW Research Institute
30+ BMS R&D veteran researchers with 16+ years ESS BMS experiences
-  High SOC Accuracy
Our SOC algorithm accuracy reaches 5%
-  Comprehensive Protection
3-level software protection, redundant hardware level protection

Euro-standard

3 - 5 kW / 5 - 40 kWh



US-standard

10 - 15 kW / 10 - 40 kWh



Intelligent Residential Energy Storage System

2
MPPTs

35 dB
Max. Noise

7 kVA
Max. AC Input

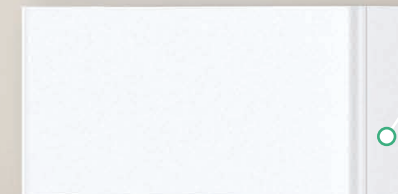
7 kW
Max. PV Input

10 Years
Warranty

Euro-standard



Inverter Module



Battery Modules



IP65 Protection



Integrated Multiple Protections



Natural Cooling



Smart Load Function



Modular & Integrated Design



Smart App & Web Management

System Specification

Model	SUN3600S-E/A	SUN4600S-E/A	SUN5000S-E/A
Rated AC Output Power (W)	3600	4600	5000
Nominal Energy (kWh)		5 to 40	
Noise (dB)		<35	
Operating Temperature Range		-20~55°C (>45°C derating)	
Dimensions (WxDxH, mm)		650 x 240 x 750+330*N (N=1 to 8)	
Ingress Rating		IP65	
Mounting Options		Indoor/Outdoor, Floor standing or Wall mounted (optional)	

Hybrid Inverter Specification

Model	SUN3600S-E/I	SUN4600S-E/I	SUN5000S-E/I
Input - DC (PV)			
Max. Input Power (W)	4600	6000	7000
Max. Input Voltage (V)		580	
MPPT Voltage Range (V)		120~550	
MPPT Voltage Range (full load)		180~550	
Start Voltage (V)		150	
Max. Input Current (A)		13.5 / 13.5	
Max. Short Current (A)		16 / 16	
No. of MPPT		2	
No. of String per MPPT		1	

Input - DC (Battery)

Battery Type	Lithium-ion		
Nominal Voltage (V)	51.2		
Operation Voltage Range (V)	40-60		
Max. Charge / Discharge Power (W)	3600 / 3600	4600 / 4600	5000 / 5000
Max. Charge / Discharge Current (A)	75 / 75	95.8 / 95.8	100 / 100
Battery Charge Method	Self-adaption to BMS		

AC (On grid)

Rated Input Apparent Power (VA)	7000		
Rated Output Power (W)	3600	4600	5000
Max. Output Apparent Power (VA)	3600	4600	5000
Rated Grid Voltage	230 Vac / L+N+PE		
Rated Grid Frequency (Hz)	50 / 60		
Max. Input Current (A)	30		
Max. Output Current (A)	16	20.9	22
THDI(Rated power)	<3%		
Adjustable Power Factor	0.8 leading to 0.8 lagging		

AC (Back Up)

Rated Output Power (W)	3600	4600	5000
Rated Output Current (A)	15.6	20	22
Rated Output Voltage (V)	230		
Rated Frequency (Hz)	50 / 60		
THDV (@linear load)	< 3%		
Overload Capacity	105%<Load≤125%, 10min. 125%<Load≤150%, 1min. 150%<Load rate, 10S		
Back-up Switch time	< 20ms		

Efficiency

Max.Efficiency (BAT to AC)	93.8%
Max.Efficiency (PV to BAT)	95.2%
Max.Efficiency (PV to AC)	97.0%
Euro.Efficiency	96.2%
Max.MPPT Efficiency	99.9%

Protection

DC Switch / GFCI / Anti-islanding Protection / DC Reverse-polarity Protection / Output Over/Under Voltage Protection / Output Over Current Protection / AC Short Circuit Protection / Insulation Resistor Detection	
DC/AC Surge Protection	Type II / Type II

General Data

PV Connection	MC4/H4
DC Switch	Integated
Dimensions (WxDxH, mm)	650 x 240 x 620
Net Weight (kg)	35
Operating Temperature Range	-25~60°C (>45°C derating)
Relative Humidity	0~95%
Max. Altitude(m)	3000
Electronics Protection Degree	IP65
Topology type	Transformer(Bat to AC)
Night Self Consumption (W)	<10
Cooling	Natural
Noise (dB)	<35
Display	Wifi+APP / LCD
Communication	RS485 / CAN / WiFi

Standard Compliance

Safety / EMC	EN IEC 62109-1, EN IEC 62109-2, EN IEC 61000-6-1, EN IEC 61000-6-3
Grid Connection Standard	VDE-AR-N 4105, NRS 097, EN 50549, G98, G99, AS 4777.2

Battery Module Specification

Model	RBmax5.1L	2*RBmax5.1L	3*RBmax5.1L	4*RBmax5.1L	5*RBmax5.1L	6*RBmax5.1L	7*RBmax5.1L	8*RBmax5.1L
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Electric Data

Nominal energy(kWh)	5.12	10.24	15.36	20.48	25.6	30.72	35.84	40.96
Usable energy(kWh)	4.79	9.58	14.37	19.16	23.95	28.74	33.53	38.32
Cell type	Lithium iron phosphate (LFP)							
Nominal voltage (V)	51.2							
Operating voltage range (V)	44.8 ~ 56.8							
Max. continuous charge current (A)	50	100	100	100	100	100	100	100
Max. continuous discharge current (A)	100	100	100	100	100	100	100	100

General Data

Weight (lbs / kg)	47.5	92.1	136.7	181.3	228.8	273.4	318	362.6
Dimensions (W * D * H) (mm)	650 × 240 × 460	650 × 240 × 790	650 × 240 × 1,120	650 × 240 × 1,450	Double tower			
					650 × 240 × 790 + 650 × 240 × 1120	650 × 240 × 1120 + 650 × 240 × 1120	650 × 240 × 1120 + 650 × 240 × 1450	650 × 240 × 1450 + 650 × 240 × 1450
Operating temperature ^[1]	Charge: 32 ~ 131°F (0 ~ 55°C), Discharge: 4 ~ 131°F (-20 ~ 55°C)							
Storage temperature	≤1 month: -20 to 45°C (-4 to 113°F), >1 month: 0 to 35°C (32 to 95°F)							
Relative humidity	0 ~ 95%							
Max. altitude (m)	4,000 (> 2,000 derating)							
Ingress rating	IP65							
Mounting options	Indoor/Outdoor, Floor standing or Wall mounted				Communication			
					CAN, RS485			

Certification

IEC 62619, UL 1973, EN 61000-6-1, EN 61000-6-3, FCC Part 15, UN38.3

Intelligent Residential Energy Storage System

98%
Max. Efficiency

4
MPPTs

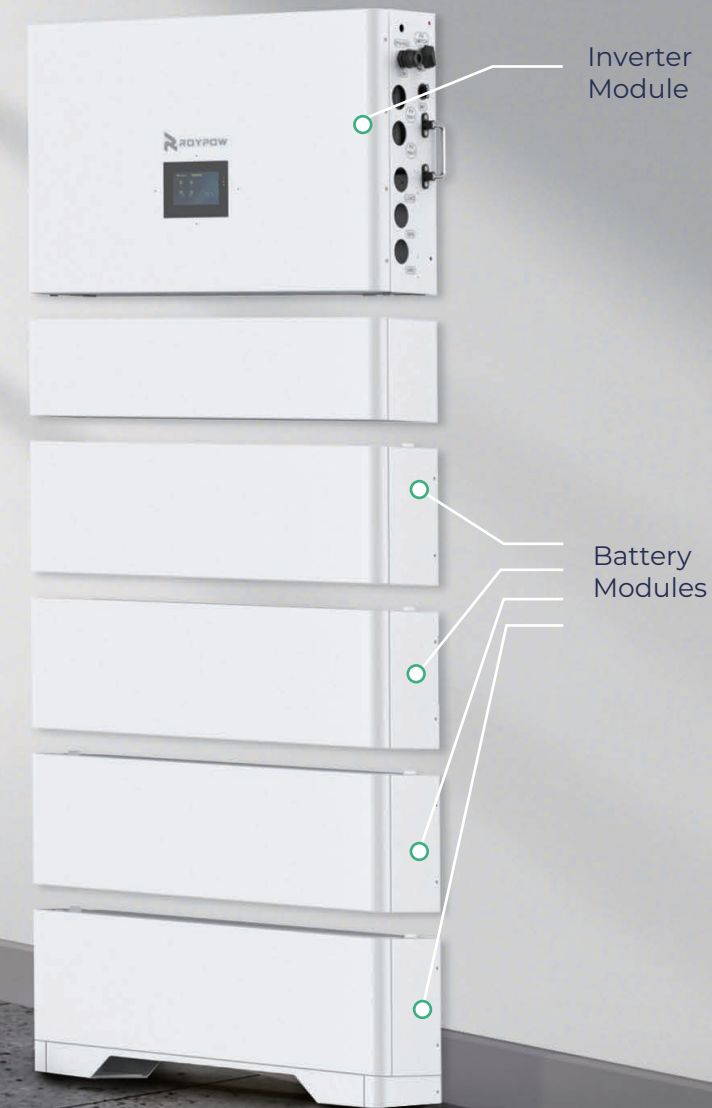
35 dB
Max. Noise

27 A
Max. Current
(Per MPPT)

20 kVA
Max. AC Input

10 Years
Warranty

US-standard



Split Phase Output



Type 4X Protection



PV Systems Compatible



Integrated RSD & AFCI



Natural Cooling



Smart Load Function



Modular & Integrated Design



Smart App & Web Management

System Specification

Model	SUN10000S-U/A	SUN12000S-U/A	SUN15000S-U/A
Rated AC Output Power (W)	10000	12000	15000
Nominal Energy (kWh)		5 to 40	
Noise (dB)		<35	
Operating Temperature Range		-20~55°C (>45°C derating)	
Dimensions (WxDxH, mm)		845 x 200 x (815+270*N (N=2 to 8))	
Ingress Rating		IP65	
Mounting Options		Indoor/Outdoor, Floor standing or Wall mounted (optional)	
Compliance & Certificates			
	UL9540, UL9540A, UL1973, FCC, UN38.3, IEE 1547, IEE 1547.1, UL1741, UL1741 CRD, UL1741SB, UL1699B, UL991, IEE 2030.5, HECO SRD-V2.0, C22.2, CEC, FCC Part 15, ICES-003 Issue 7		

Hybrid Inverter Specification

Model	SUN10000S-U	SUN12000S-U	SUN15000S-U
Input - DC (PV)			
Max. Power (Wp)	14400	20000	24000
Max. DC Voltage (V)		550	
MPPT Voltage Range (V)		120~550	
MPPT Voltage Range (V, full load)	235~550	200~550	225~550
Start Voltage (V)		150	
Max. Input Current per MPPT (Imp, A)	15.5	27	27
Max. Short Circuit Current per MPPT (Isc, A)	20	40	40
Number of MPPT		4	
Number of PV String per MPPT	1	2	2

Input - DC (Battery)

Compatible Battery		RBmax5.1H Series	
Voltage Range (V)		75-480	
Max. Charge / Discharge Power (W)	10000 / 10000	12000 / 12000	15000 / 15000
Max. Charge / Discharge Current (A)		75 / 75	

Input - AC (GEN)

Max. AC Power (W)		19000	
Max. AC Current (A)		79.2	
Rated Voltage (V) / Frequency (Hz)		240, (L1/L2) / 60Hz	

AC (On grid)

Rated Output Power @240V (W)	10000	12000	15000
Max. Output Apparent Power @240V (VA)	10000	12000	15000
Rated Output Current (A)	41.6	50	62.5
Rated Input Power @240V(W)		20000	
Rated Input Apparent Power @240V(VA)		20000	
Rated Input Current (A)		83.3	
Rated Grid Voltage (V)		120/240, (L1/L2/N)	
Rated Grid Frequency (Hz)		60	
THDI		<3%	
Power Factor		0.8 leading to 0.8 lagging	

Efficiency

Max.Efficiency (PV to Grid)		98.0%	
CEC Efficiency (PV to Grid)		97.2%	

AC (Back Up)

Rated Output Power (W)	8000	10000	12000
Rated Output Current (A)		79.2	
Rated Output Voltage		120/240V, L1/L2/N	
Rated Frequency (Hz)		60	
Back-up Switch Time		<10ms	
THDV		<3%	

Protections

PV Switch / PV Rapid Shutdown / Arc Fault Circuit Interrupter (AFCI) / GFCI/Anti-islanding Protection /DC Reverse-polarity Protection / AC Over / Under Voltage Protection / AC Over Current Protection / AC Short Circuit Protection/Insulation Resistor Detection

DC/AC Surge Protection Device	TYPE 4
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Environmental

Operating Temperature	-30 ~ 60°C(-22 ~ 140°F), derating above 45°C(113°F)
Operating Humidity	0~95% RH
Storage Conditions	-30~60°C(-22 ~ 140°F), 0~95% non-condensing
Enclosure Type	NEMA Type 4X
Max Elevation	3000m (>2000m derating)
Noise (dB)	<35

General Data

Mounting Option	Wall Mount, indoor or outdoor
Coupling	DC-Coupling
Topology	Transformerless
Night Self Consumption (W)	10
Cooling	Natural Convection
Display	LCD + APP (WiFi)
Communication Interface	RS485 / CAN / WiFi
Dimensions (WxDxH)	850 x 200 x 550mm (33.5 x 7.9 x 21.7 in)
Weight	55kg (121.3 lbs)

Battery Module Specification

Model	2*RBmax5.1H	3*RBmax5.1H	4*RBmax5.1H	5*RBmax5.1H	6*RBmax5.1H	7*RBmax5.1H	8*RBmax5.1H
Electric Data							
Nominal Energy (kWh)	10.24	15.36	20.48	25.6	30.72	35.84	40.96
Usable Energy (kWh)	9.58	14.37	19.16	23.95	28.74	33.53	38.32
Nominal Voltage (V)	102.4	153.6	204.8	256	307.2	358.4	409.6
Operating Voltage Range (V)	89.6~113.6	134.4~170.4	179.2~227.2	224~284	268.8~340.8	313.6~397.6	358.4~454.4
Max. charge/discharge Current (A)	50 / 75						

General Data

Battery Chemistry	LFP (LiFePO ₄)						
Weight (Kg)	106	153	200	251	298	345	392
Dimensions (W x D x H) (mm)	845×200×805	845×200×1075	845×200×1345	Double tower			
				845×200×1075, 845×200×685	845×200×1075, 45×200×955	845×200×1345, 845×200×955	845×200×1345, 845×200×1345
Operating Temperature	Charge: 0 to 55°C (32 to 131°F), -20 to 55°C (-4 to 131°F)						
Storage temperature	≤1 month: -20 to 45°C (-4 to 113°F), >1 month: 0 to 35°C (32 to 95°F)						
Relative Humidity	5~95%						
Max. Altitude	4000 (>2000m derating)						
Protection Degree	IP 65 (NEMA Type 4X)						
Installation Location	Indoor/Outdoor, Floor standing, Wall mounted						
Communication	CAN, RS485						



Advanced LiFePO₄ Battery Module

5 kW / Module
Max. Continuous Discharge Power

5.12 kWh ~ 40.96 kWh
Flexible Capacity

5/10 Years
Optional Warranty

Easy Installation with Modular and Stacked Design

Safety Standards Like CE, UN38.3, EN 62619, UL1973

Excellent Safety of Cobalt Free LiFePO₄ Battery

Built-in BMS with Intelligent Monitoring & Multiple Protections

Model	RBmax5.1L	2*RBmax5.1L	3*RBmax5.1L	4*RBmax5.1L	5*RBmax5.1L	6*RBmax5.1L	7*RBmax5.1L	8*RBmax5.1L
Electric Data								
Nominal energy(kWh)	5.12	10.24	15.36	20.48	25.6	30.72	35.84	40.96
Usable energy(kWh)	4.79	9.58	14.37	19.16	23.95	28.74	33.53	38.32
Cell type	Lithium iron phosphate (LFP)							
Nominal voltage (V)	51.2							
Operating voltage range (V)	44.8 ~ 56.8							
Max. continuous charge current (A)	50	100	100	100	100	100	100	100
Max. continuous discharge current (A)	100	100	100	100	100	100	100	100
General Data								
Weight (lbs / kg)	47.5	92.1	136.7	181.3	228.8	273.4	318	362.6
Dimensions (W × D × H) (mm)	650 × 240 × 460	650 × 240 × 790	650 × 240 × 1,120	650 × 240 × 1,450	Double tower			
					650 × 240 × 790 + 650 × 240 × 1120	650 × 240 × 1120 + 650 × 240 × 1120	650 × 240 × 1120 + 650 × 240 × 1450	650 × 240 × 1450 + 650 × 240 × 1450
Operating temperature ^[1]	Charge: 32 ~ 131°F (0 ~ 55°C), Discharge: 4 ~ 131°F (-20 ~ 55°C)							
Storage temperature	≤1 month: -20 to 45°C (-4 to 113°F), >1 month: 0 to 35°C (32 to 95°F)							
Relative humidity	0 ~ 95%							
Max. altitude (m)	4,000 (> 2,000 derating)							
Ingress rating	IP65							
Mounting options	Indoor/Outdoor, Floor standing or Wall mounted				Communication		CAN, RS485	
Certification	IEC 62619, UL 1973, EN 61000-6-1, EN 61000-6-3, FCC Part 15, UN38.3							

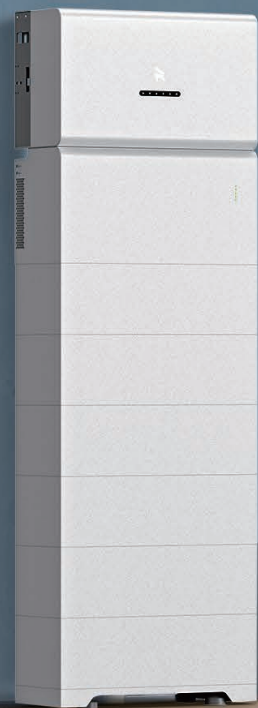
[1] When the ambient temperature is too low or too high, the performance of battery may be limited.

All-In-One Series Energy Storage System

Three Phase

8 - 15 kW / 7.6 - 33 kWh

Expandable to 90 kW / 132 kWh



Compatible with
AC-coupling

200% DC
Oversizing

98.3%
Efficiency



System Specification

Model	SUN8000T-E/A	SUN10000T-E/A	SUN12000T-E/A	SUN15000T-E/A
Rated AC Output Power (W)	8000	10000	12000	15000
Nominal Energy (kWh)		7.6 to 132.7		
Noise (dB)		<30		
Operating Temperature Range		-20~50°C (-4~122°F), >45°C(113°F) derating		
Dimensions (WxDxH, mm)		650 x 270 x (770+200*N (N=2 to 6))		
Ingress Rating		IP65		
Mounting Options		Indoor/Outdoor, Floor standing or Wall mounted (optional)		

Hybrid Inverter

Lighter, Smaller, Quieter

200%
DC Oversizing

200%
Overload Capacity

98.3%
Max. Efficiency

<10ms
Seamless Switch

30A
Max. PV
Input Current

100%
Three-Phase
Imbalance Output



Hybrid Inverter Specification

Model	SUN8000T-E/I	SUN10000T-E/I	SUN12000T-E/I	SUN15000T-E/I
Input - DC (PV)				
Max. Power (Wp)	20000	20000	30000	30000
Max. DC Voltage (V)		1000		
MPPT Voltage Range (V)		160~950		
MPPT Voltage Range (V, full load)	200~800	240~800	240~800	280~800
Start Voltage (V)		180		
Max. Input Current (A)	30 / 20	30 / 20	30 / 30	30 / 30
Max. Short Current (A)	40 / 30	40 / 30	40 / 40	40 / 40
Number of MPPT		2		
Number of String per MPPT	2-1	2-1	2-2	2-2

Input - DC (Battery)				
Compatible Battery	RBmax MH Battery System			
Voltage Range (V)	600-950			
Max. Charge / Discharge Power (W)	8000	10000	12000	15000
Max. Charge / Discharge Current (A)	27 / 27			

AC (On grid)				
Rated Output Power (W)	8000	10000	12000	15000
Max. Output Apparent Power (VA)	8800	11000	13200	15000
Max. Output Power (W)	8800	11000	13200	15000
Rated Input Apparent Power (VA)	22500			
Max. Input Current (A)	32			
Rated Grid Voltage (V)	380/400, 3W+N			
Rated Grid Frequency (Hz)	50 / 60			
Max. Output Current (A)	3*12.8	3*16	3*19.2	3*21.8
THDI(Rated power)	<3%			
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			

AC (Back Up)				
Rated Output Power (W)	8000	10000	12000	15000
Rated Output Current (A)	13	15.6	17.4	20
Rated Bypass Power (VA)	22500			
Rated Bypass Current (A)	32			
Rated Output Voltage (V)	380/400, 3W+N			
Rated Frequency (Hz)	50 / 60			
THDV (@linear load)	< 2%			
Overload Capacity	120% for 10min, 200% for 10S			
Scalability	Max. 6 in parallel			

Efficiency				
Max.Efficiency	98.0%	98.0%	98.3%	98.3%
Euro.Efficiency	97.3%	97.3%	97.6%	97.6%
Max. Charge Efficiency	99%			
Max. Charge/Discharge Efficiency	99%			

Protection				
DC Switch / GFCI / Anti-islanding Protection / DC Reverse-polarity Protection / AC Over/Under Voltage Protection / AC Over Current Protection / AC Short Circuit Protection / Insulation Resistor Detection / GFCI				
DC/AC Surge protection Device	Type II / Type III			
AFCI / RSD	Optional			

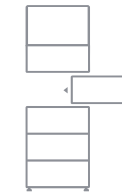
General Data				
Switch Time	< 10ms	Topology	Transformerless	
Generator Interface	Optional	Noise (dB)	<30	
PV Switch	Integrated	Night Self Consumption (W)	<10	
PV Connection	MC4/H4	Cooling	Natural Convection	
AC Connection	Connector	Display	LED + APP (Bluetooth)	
Operating Temperature Range	-25~60°C (-13~140°F), >45°C(113°F) derating	Protection Degree	IP65	
Relative Humidity	0~95%	Dimensions (WxDxH, mm)	650 x 265 x 390	
Altitude (m)	4000	Net Weight (kg)	28	
Communication Interface	RS485 / CAN / USB / (Wi-Fi / GPRS / 4G / Ethernet optional)			

Standard Compliance				
Grid Connection standards	VDE-AR-N 4105, EN 50549, AS4777.2, CEC, RCM	Safety	EN IEC62109-1/-2, EN 61000-6-1/-2/-3/-4, EN IEC 62040, EN IEC 62477	

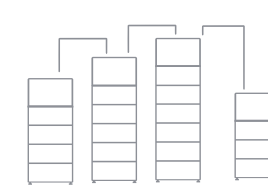
Battery Module



No Additional Wiring Required



Modular & Stackable Design



7.6 ~ 132 kWh Flexible Capacity Expansion

LFP
Safe, Cobalt-Free Battery

IP65
Ingress Rating

Battery System Specification

Model	2*RBmax3.8MH	3*RBmax3.8MH	4*RBmax3.8MH	5*RBmax3.8MH	6*RBmax3.8MH
Battery Module	RBmax3.8H (3.84 kWh, 76.8 V, 38 kg)				
Number of Battery Modules	2	3	4	5	6
Nominal Energy (kWh)	7.68	11.52	15.36	19.2	23.04
Usable Energy (kWh)[1]	7.18	10.77	14.36	17.95	21.54
Rated Current (A)	45				
Nominal Power (kW)	6.9	10.3	13.8	15	15
Peak Output Power (kW)	8 for 10 sec.	12 for 10 sec.	16 for 10 sec.	17 for 10 sec.	17 for 10 sec.
Weight (kg)	93.7	131.7	169.7	207.7	245.7

Model	2*RBmax5.5MH	3*RBmax5.5MH	4*RBmax5.5MH	5*RBmax5.5MH	6*RBmax5.5MH
Battery Module	RBmax5.5H (5.5 kWh, 76.8 V, 43kg)				
Number of Battery Modules	2	3	4	5	6
Nominal Energy (kWh)	11.06	16.59	22.12	27.65	33.18
Usable Energy (kWh)[1]	10.34	15.5	20.67	25.84	31.01
Rated Current (A)	50				
Nominal Power (kW)	7.6	11.5	15	15	15
Peak Output Power (kW)	8 for 10 sec.	12 for 10 sec.	16 for 10 sec.	17 for 10 sec.	17 for 10 sec.
Weight (kg)	103.7	146.7	189.7	232.7	275.7

RBmax3.8MH & RBmax5.5MH Series					
Dimensions (W x D x H, mm)	650 x 265 x 780	650 x 265 x 980	650 x 265 x 1180	650 x 265 x 1380	650 x 265 x 1580
Battery Nominal Voltage (V)	153.6	230.4	307.2	384	460.8
Battery Operating Voltage Range (V)	124.8~172.8	187.2~259.2	249.6~345.6	312~432	374.4~518.4
Battery Chemistry	Lithium Iron Phosphate (LiFePO ₄)				
Scalability	Max. 4 in parallel				
Operating Temperature	Charge: 0~ 50°C (32~122°F), Discharge: -20~50°C (-4~122°F) (>45°C(113°F) derating)				
Storage Temperature	≤1 month: -20~45°C (-4~113°F), >1 month: 0~35°C (32~95°F)				
Relative Humidity	5~95%				
Max. Altitude (m)	4000 (>2000m derating)				
Protection Degree	IP65				
Cooling Method	Natural Cooling				
Mounting Options	Indoor/Outdoor, Floor standing, Wall mounted				
DC Protection	Circuit Breaker, Fuse, DC-DC converter				
Protection Features	Over Voltage / Over Current / Short Circuit / Reverse Polarity				
Certifications	CE, VDE-AR-E 2510-50, EN IEC 62619, EN IEC 62477, EN IEC62040, RCM, CEC, UN38.3				

Battery Optimizer	RMH95050
Rated Current (A)	50
Communication	CAN, RS485
Scalability	Max. 4 in parallel
Dimensions (W x D x H, mm)	650 x 265 x 270
Weight (Kg)	16

APP & WEB MANAGEMENT

Everything at a glance and under control; the intuitive App / Web allows you to have full visibility into your self-powered home while providing real-time information on solar generation, battery power flow, and household consumption.



Real-time Monitoring & Comprehensive Visualization



Multi-terminal Compatibility & Sharing



Dynamic Power Flow & Generation Report



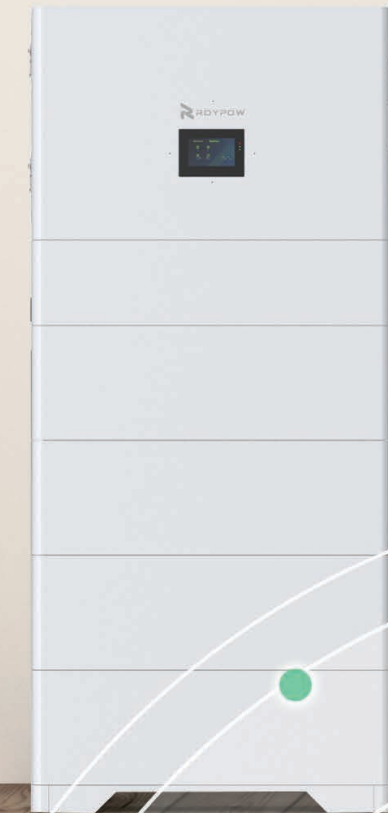
Backup Function & Data Encryption



Working Mode Switch & Profit Calculation



Integrated After-sales Service



ROYPOW, For One-stop New Energy Solutions

ROYPOW TECHNOLOGY is dedicated to the R&D, manufacturing and sales of motive power systems and energy storage systems as one-stop solutions.

With more than 20 years of combined experience in manufacturing renewable energy and battery systems, ROYPOW provides Lithium-ion Batteries covering most daily living and working fields: for Low-Speed Vehicles such as golf carts, personnel carriers; Industrial Batteries for use in Material Handling Equipment such as forklifts, aerial work platforms and floor cleaning machines as well as renewable Energy Storage Systems for residential, commercial, industrial, vehicle-mounted and marine applications.

ROYPOW has established a worldwide network to serve customers with a manufacturing center in China and subsidiaries in the USA, the UK, Germany, the Netherlands, South Africa, Australia, Japan and Korea to date. ROYPOW owns and operates fully automatic production lines, a full range of test equipment and an advanced MES that collectively address all aspects of its manufacturing process, from electronics, software design to module assembly, battery assembly as well as initial and final testing. ROYPOW focuses on the self-development of power electronics technologies, including PCS, BMS, and EMS as the core competence.

As a renewable energy innovator, ROYPOW is committed to the mission of achieving energy sustainability while creating a better life for human beings.



R&D and Manufacturing Highlights

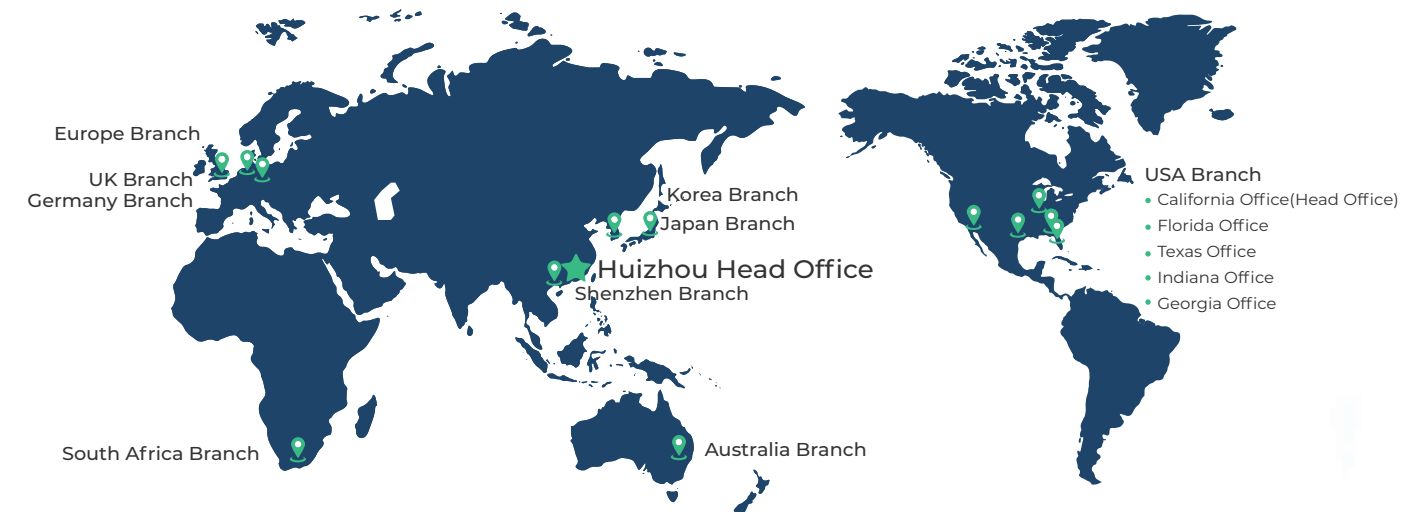
As a result of these investments, ROYPOW is capable of "end-to-end" integrated delivery making our products out-perform the industry norms.

- All-round testing.
- Integrated design.
- Advanced MES system.
- IATF 16949 automotive quality management system certification
- QC system.
- Persistent technology innovation.
- Fully automatic production line.
- ISO12405-2 vibration performance and safety testing of automotive lithium batteries

Global Sales and Service Network System

- Timely Delivery.
- Hassle-free After-sales Service.
- Fast Response Technical Support.

ROYPOW has comprehensively unfolded its overseas market layout to ensure the localization of R&D, manufacturing, marketing and service, becoming one of your most reliable and valuable partners.



Upgrading to New Technology, with Our Turnkey Solutions.

With years of dedication to new energy solutions, we are proud to offer customers professional solutions for:

- ✓ **Low-speed Vehicle Batteries** including golf carts and sightseeing cars;
- ✓ **Industrial Batteries** including forklifts, aerial work platforms, floor cleaning machines and electric excavators;
- ✓ **Vehicle-Mounted Energy Storage Systems & Batteries** Including RV and truck energy storage and air conditioning systems, off-grid solar systems for RV, as well as power batteries for electric motorcycles and airport ground support equipment;
- ✓ **Marine Energy Storage Systems & Batteries** including trolling motors, fish finders, other off-grid energy storage systems for marine, and marine power systems;
- ✓ **Residential Energy Storage Systems & Portable Power Units** including home storage and portable energy storage products, as well as off-grid energy storage (for forest cabin, island homes without electricity, etc.);
- ✓ **Commercial & Industrial Energy Storage Systems** including diesel generator power micro-grid energy storage systems (for tower cranes, air compressors, mixers, crushers, etc);
- ✓ **Chargers** for forklifts, aerial work platforms, floor cleaning machines, golf carts and various marine batteries.

