ROYPOW TECHNOLOGY CO., LTD. has a policy of improving products continuously. All the information in this catalogue is provided for reference only. We reserve the right to make revisions as well as product alterations and improvements at any time without prior notice. Trademarks are the property of ROYPOW TECHNOLOGY CO., LTD. or their respective owners. Technical data and illustrations are not binding. We assume no liability for misprints.

Version: February 24, 2025, Commercial & Industrial Energy Storage Systems



Energy-Efficient & Cost-Effective C&I ESS

Euro-Standard **Commercial & Industrial Energy Storage Systems**

• • •

2

Unlock Great Power & Profit for Your Projects



ROYPOW Technology Co., Ltd.

Tel: +86 (0)752-327 9099

Email: sales@roypow.com service@roypow.com marketing@roypow.com

Web: www.rovpow.com

Add: ROYPOW Industrial Park, No. 16, Dongsheng South Road, Chenjiang Street, Zhongkai High-Tech District, Huizhou City, Guangdong Province, China

ROYPOW (USA) Technology Co., Ltd.

Tel: +1 512 688 5555 (Texas Office) Email: sales@roypowusa.com Email: service@roypowusa.com

Web: www.rovpow.com

Head Office: 5901 Triumph St, Commerce, CA 90040, USA Texas Office: 2350 Campbell Creek Blvd #100 Richardson, TX 75082, USA Florida Office: 277 Douglas Avenue, Unit 1004, Altamonte Springs, FL 32714, USA Indiana Office: 5545 W Raymond St, Ste H Indianapolis, IN 46241, USA Georgia Office: 1150 Cobb International Pl NW Ste E, Kennesaw, GA 30152, USA

ROYPOW Technology UK Limited

Tel: +44 (0) 7918 955 940 Email: sales.uk@roypow.com Add: Regus Green Park, 200 Brook Dr, Reading RG2 6UB, UK

ROYPOW Battery Technology (Pty) Ltd

Email: sales.za@roypow.com Tel: +27 69 89 55555 Add: 53 Lake Rd, Longmeadow Business Estate, Edenvale, 1609, South Africa

ROYPOW (Europe) Technology B.V.

Email: sales.eu@roypow.com Tel: +31 702 001 114 Web: www.roypoweurope.com Add: K.P. van der Mandelelaan 84, 3062 MB Rotterdam, The Netherlands

ROYPOW Australia Technology Pty Ltd

Email: sales@roypowtech.com.au Tel: +61 29185 0814 Web: www.roypowtech.com.au Add: Suite 803a, 18 Orion Road, Lane Cove, NSW, 2066, Australia

ROYPOW Technology GmbH

Tel: +49 (0) 176 2358 8956 Email: sales.de@roypow.com Web: www.rovpow.ambh Add: Rosa-Parks-Straße 4, 64295 Darmstadt, Germany

ROYPOW株式会社

Tel: +81 090 7092 6969 Email: info@roypow.co.jp Web: www.roypow.co.jp Add: 〒271-0094 千葉県松戸市上矢切299-7

ROYPOW Technology Co., Ltd (Korea)

Tel:1555-2016 Email: sales.kr@roypow.com Add: 2405, GIDC Gwangmyeong station A Dong, 43 Iljik-ro, Gwangmyeong-si, Gyeonggi-do, Korea







☑ sales@roypow.com www.roypow.com



ROYPOW, Your Trusted Partner

Contents

About Us Why ROYPOW C&I ESS Applications of ROYPOW C&I ESS Air-Cooled Energy Storage System Liquid-Cooled Energy Storage System Battery Energy Storage System Mobile Energy Storage System



ROYPOW For One-stop New Energy Solutions

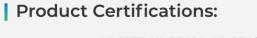
- R&D, manufacturing and sales of motive power systems and energy storage systems as one-stop solutions
- Fully automatic production lines, a full range of test equipment and an advanced MES
- · Covering Low-Speed Vehicles' Batteries, Industrial Batteries, as well as Residential ESS, Commercial & Industrial ESS, and Mobile ESS
- Self-development of power electronics technologies, including PCS, BMS, and EMS



Quality Control Certificates:

- Environmental Management System: ISO 14001:2015
- Occupational Health and Safety Management System: ISO45001:2018
- 🗸 Quality Management System: ISO 9001:2015, IATF16949:2016
- Information Security Management System: ISO/IEC 27001:2022
- ✓ Social Accountability Management System: SA8000:2014
- ✓ Hazardous Substance Process Management: IECQ QC 080000







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.



BMS, PCS, EMS All Designed in House

Global Sales and Service Network



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:

Industrial Batteries > Low-speed Vehicle Batteries > Battery Systems for Emerging Applications > Battery Systems for Off-highway Applications Residential Energy Storage Systems Commercial & Industrial Energy Storage Systems Motors, Controllers and Chargers Mobile Energy Storage Systems







Advanced MES System

Hassle-free After-sales Service



Fast Response Technical Support

ROYPOW C&I ESS Solutions

Committed to providing cutting-edge energy storage solutions to the world, ROYPOW has developed safe, efficient, and economical commercial and industrial energy storage systems for both on-grid and off-grid scenarios, helping to optimize the energy structure, enhance the reliability of the power system, reduce the cost of energy use, etc.



Comprehensive Solutions

ROYPOW provides comprehensive energy storage solutions, which allows businesses to choose the right combination of products tailored to their specific power and cost needs, whether for energy efficiency, peak shaving, or backup power.



High Quality for Lower TCO

ROYPOW solutions, backed by strong R&D, manufacturing, testing, and quality control strengths, ensure safety, reliability, and energy efficiency in demanding conditions, extending service life and reducing total cost of ownership (TCO).

The solutions include:





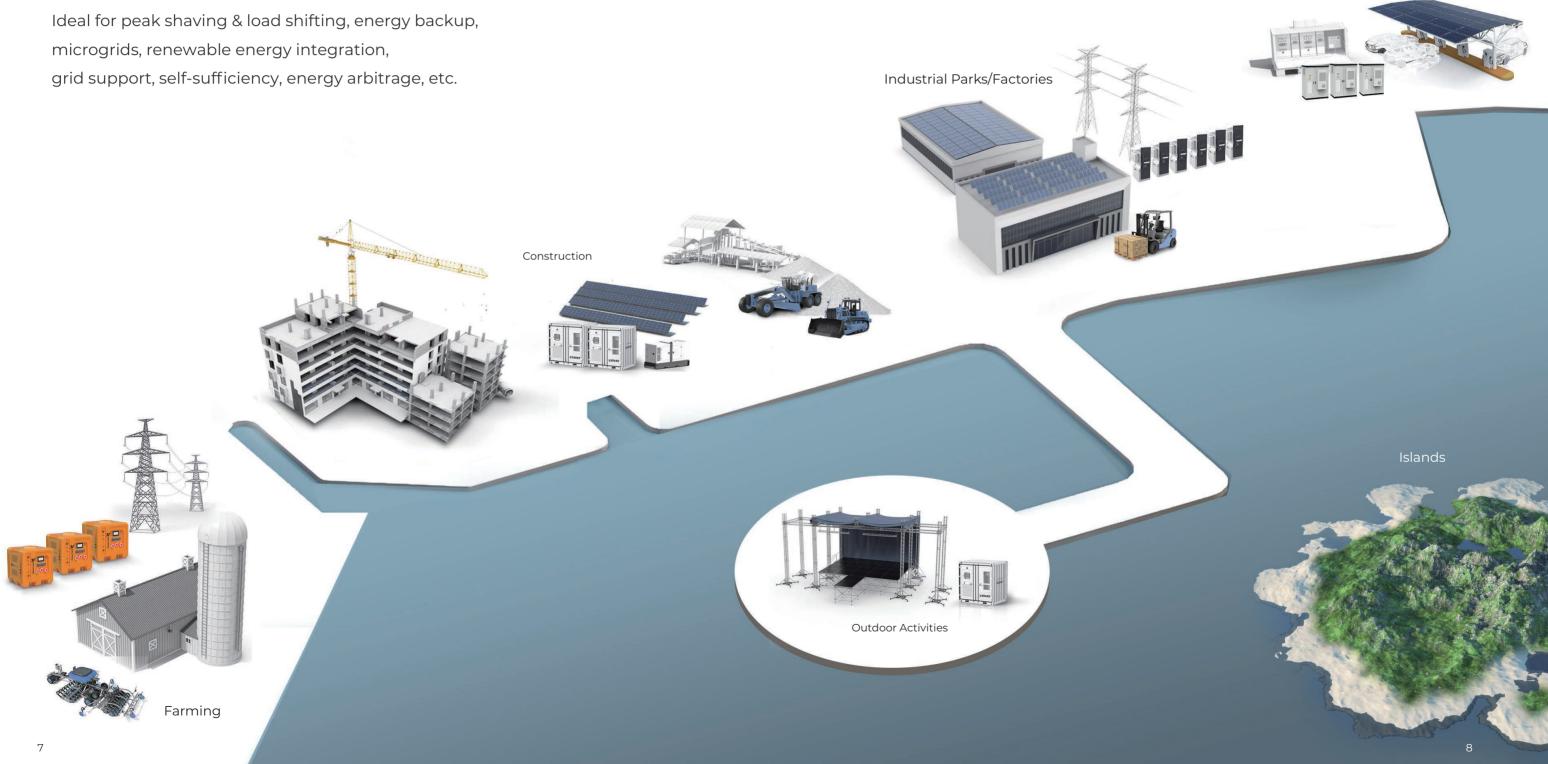
Go for a Sustainable Future

With a focus on clean, renewable energy integration, ROYPOW empowers industries to achieve their sustainability goals and lower carbon footprints while benefiting from reliable, cost-effective energy storage solutions.



Mobile Energy Storage System

Versatile Applications





Air-Cooled Energy Storage System

20kW / 45.6kWh | 25kW / 60.8kWh | 30kW / 60.8kWh

The all-in-one air-cooled ESS cabinet integrates long-life battery modules, a high-performance inverter, fire protection, air conditioning, and more into a single unit, enabling long-term operation with safety, stability, and reliability for various scenarios, including commercial buildings, industrial facilities, and emergency backup systems.



- Parallel connection of up to 6 cabinets, reaching 180kW / 360kWh
- 20ms off-grid switching time for seamless power support
- IP54 ingress rating for indoor and outdoor installation
- Cell-level and cabinet-level hot aerosol fire extinguishing system for fire safety

. . .

ROYPOW



Inverter

Module

- Three-phase output
- Max. 99% PV-to-grid efficiency
- Intelligent management via Bluetooth on the App
- IP65 Ingress rating
- Multiple safety protections, including anti-islanding, over-current, short-circuit, and over-voltage protection





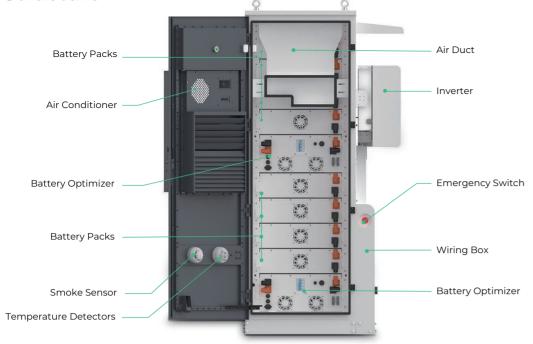
System



- 10 years of warranty
- Advanced LFP cells with high safety, long life, stable and reliable characteristics
- Long lifespan with over 6,000 times of cycle life
- Multiple safety protections, including over-current, short-circuit, over-voltage, and output short-circuit protection



System Structure



Technical Specifications

Charge Discharge Rate 0.SP / 0.SP Number of Battery Optimizer 2 2 2 Number of Battery Pack 6 8 8 Battery Pack Model RBmax7.6MH 8 8 Battery Pack Model RBmax7.6MH 1 1 Nominal Energy 7.6 kWh (33SIP, 3.2 V 72 Ah) 1 1 Nominal Voltage/Voltage Range 105.6 V / 92.4 · 120.45 V 1 1 Max. Continuous Working Current 500 A 1	Model	CS2045-E/H	CS2560-E/H	CS3060-E/H
Nominal Voltage/Voltage Range 316.8 V / 277.2 · 361.35 V 4.22.4 V / 369.6 - 481.8 V 4.22.4 V / 369.6 - 481.8 V Charge Discharge Rate 0.5P / 0.5P 0.5P 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Battery Parameters			
Charge Discharge Rate OSP / OSP Number of Battery Optimizer 2 2 2 Number of Battery Pack 6 8 8 Battery Pack Model RBmax7.6MH 8 8 Battery Pack Model RBmax7.6MH 8 8 Nominal Energy 7.6 kWh (33SIP, 32.V 72 An) 7 8 Nominal Voltage/Voltage Range 105.6 V 92.4 · 120.45 V 7 8 Max. Continuous Working Current 50.A 7 8 7 Cycle Life 6000 @ 25°C.90% DOD, 0SP / 0.SP	Nominal Energy	45.6 kWh	60.8 kWh	60.8 kWh
Number of Battery Optimizer 2 2 2 Number of Battery Pack 6 8 8 Battery Pack Model REmax7.6MH 8 Nominal Energy 7.6 kWh (33SIP, 3.2 V 72 Ah) 1 Nominal Voltage/Voltage Range 105.6 V / 92.4 - 120.45 V 1 Max. Continuous Working Current 50 A 1 Cycle Life 6000 @ 25°C,90% DOD, 05P / 05P, 70% EOL 1 Dimension (W+D×H) 66 kg 1 Net Weight 65 kg 1 Battery Optimizer Model RMH95050 1 DC Working Voltage 550 - 950 V 1 Nominal Power 15 kW 1 Dimension (W+D×H) 650 x 250 x 250 mm 1 Net Weight 15 kg 1 Inverter Model SUN20000T-EI SUN30000T-EI Input (PV) 340 ~ 800 270 ~ 800 340 ~ 800 Max De word (W) 340 ~ 800 270 ~ 800 340 ~ 800 Max De Voltage (V) 1000 340 ~ 800 340 ~ 800 Max De Voltage (V) <td>Nominal Voltage/Voltage Range</td> <td>316.8 V / 277.2 - 361.35 V</td> <td>422.4 V / 369.6 - 481.8 V</td> <td>422.4 V / 369.6 - 481.8 V</td>	Nominal Voltage/Voltage Range	316.8 V / 277.2 - 361.35 V	422.4 V / 369.6 - 481.8 V	422.4 V / 369.6 - 481.8 V
Number of Battery Pack 6 8 8 Battery Pack Model RBmax7.6MH Nominal Energy 7.6 kWh (33SIP, 3.2 V 72 Ah) Nominal Voltage/Voltage Range 105.6 V / 92.4 - 120.45 V Max. Continuous Working Current 50 A Cycle Life 6000 @ 25°C,90% DOD, 0.5P / 0.5P, 70% EOL Dimension (W+D+H) 500 × 760 × 148.3 mm Net Weight 65 kg Battery Optimizer Model RMH95050 DC Working Voltage 550 - 950 V Nominal Power 15 kW Dimension (W+D+H) 650 x 250 x 250 mm Net Weight 15 kg Dimension (W+D+H) 650 x 250 x 250 mm Net Weight 15 kg Inverter Model SUN20000T-EI SUN30000T-EI Input (PV) 45000 340 ~ 800 340 ~ 800 Max De Voltage (V) 340 ~ 800 270 ~ 800 340 ~ 800 Max De Voltage (V) 10	Charge Discharge Rate		0.5P / 0.5P	
Battery Pack Model RBmax7.6MH Nominal Energy 7.6 kWh (33SIP, 3.2 V 72 Ah) Nominal Voltage/Voltage Range 105.6 V / 92.4 · 120.45 V Max. Continuous Working Current 50 A Cycle Life 6000 @ 25°C,90% DOD, 0.5P / 0.5P, 70% EOL Dimension (W*D*H) 500 x 760 x 148.3 mm Net Weight 65 kg Battery Optimizer Model RMH95050 DC Working Voltage 550 - 950 V Nominal Power 15 kW Dimension (W*D*H) 650 x 250 x 250 mm Net Weight 15 kg Inverter Model SUN20000T-EI SUN30000T-EI Inverter Model SUN20000T-EI SUN30000T-EI Input (PV) 45000 340 ~ 800 MAX. Dower (W) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (Full Load) (V) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (V) 160 - 950 4500 340 ~ 800 MPPT Range (V) 1000 340 ~ 800 340 ~ 800 MPPT Range (V) 180 30/30/30 30/30/30	Number of Battery Optimizer	2	2	2
Nominal Energy 7.6 kWh (33SIP, 3.2 V 72 Ah) Nominal Voltage/Voltage Range 105.6 V / 92.4 · 120.45 V Max. Continuous Working Current 50 A Cycle Life 6000 @ 25°C,90% DOD, 0.5P / 0.5P, 70% EOL Dimension (W×D×H) 500 x 760 x 148.3 mm Net Weight 65 kg Battery Optimizer Model RMH95050 DC Working Voltage 550 - 950 V Nominal Power 15 kW Dimension (W×D×H) 650 x 250 x 250 mm Net Weight 650 x 250 x 250 mm Dimension (W×D×H) 650 x 250 x 250 mm Net Weight 15 kg Inverter Model SUN20000T-EI SUN30000T-EI Inverter Model SUN20000T-EI SUN30000T-EI Input (PV) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (Full Load) (V) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (V) 160 ~ 950 1000 340 ~ 800 MPPT Range (V) 180 30 / 30 / 30 / 30 / 30 / 30 / 30 / 30 /	Number of Battery Pack	6	8	8
Nominal Voltage/Voltage Range 105.6 V / 92.4 - 120.45 V Max. Continuous Working Current 50 A Cycle Life 6000 @ 25°C,90% DOD, 0.5P / 0.5P / 0.5P, 70% EOL Dimension (W×D×H) 500 × 760 × 148.3 mm Net Weight 65 kg Battery Optimizer Model RMH95050 DC Working Voltage 550 - 950 V Nominal Power 15 kW Dimension (W×D×H) 650 × 250 × 250 x mm Net Weight 15 kg Inverter Model SUN20000T-EI SUN30000T-EI Inverter Model SUN20000T-EI SUN30000T-EI Input (PV) 45000 340 ~ 800 Max. Power (W) 340 ~ 800 270 ~ 800 340 ~ 800 MPT Range (Full Load) (V) 340 ~ 800 270 ~ 800 340 ~ 800 Max. DC Voltage (V) 1000 340 ~ 800 340 ~ 800 Max. DC Current (A) 30 / 30 30 / 30 / 30 30 / 30 / 30 Max. DC Current (A) 30 / 30 30 / 30 / 30 30 / 30 / 30	Battery Pack Model		RBmax7.6MH	
Max. Continuous Working Current 50 A Cycle Life 6000 @ 25°C,90% DOD, 0.5P / 0.5P, 70% EOL Dimension (W*D×H) 500 x 760 x 1483 mm Net Weight 65 kg Battery Optimizer Model RMH95050 DC Working Voltage 550 - 950 V Nominal Power 15 kW Dimension (W*D×H) 650 x 250 x 250 mm Net Weight 15 kg Inverter Model SUN20000T-EI SUN30000T-EI Inverter Model SUN20000T-EI SUN30000T-EI Input (PV) 45000 340 ~ 800 MAX. Power (W) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (Full Load) (V) 340 ~ 800 270 ~ 800 340 ~ 800 MPT Range (V) 160 ~ 950 1000 340 ~ 800 MAX. DC Voltage (V) 1000 340 ~ 800 30 / 30 / 30 Max. DC Current (A) 30 / 30 30 / 30 / 30 30 / 30 / 30 Max. DC Current (A) 30 / 30 30 / 30 / 30 30 / 30 / 30	Nominal Energy		7.6 kWh (33S1P, 3.2 V 72 Ah)	
Cycle Life 6000 @ 25°C,90% DDD, 0.5P / 0.5P, 70% EOL Dimension (W×D×H) 500 x 760 x 148.3 mm Net Weight 65 kg Battery Optimizer Model RMH95050 DC Working Voltage 550 - 950 V Nominal Power 15 kW Dimension (W×D×H) 650 x 250 x 250 mm Net Weight 15 kg Inverter Model SUN20000T-EI Inverter Model SUN30000T-EI Inverter Model SUN30000T-EI Input (PV) 340 ~ 800 Max. Power (W) 340 ~ 800 MPT Range (Full Load) (V) 340 ~ 800 MPT Range (V) 160 ~950 Max. DC Voltage (V) 1000 Start Voltage (V) 180 Max. DC Current (A) 30/30 30/30/30 Max. DC Voltage (V) 340 ~ 800 30/30/30	Nominal Voltage/Voltage Range		105.6 V / 92.4 - 120.45 V	
Dimension (W×D×H) 500 x 760 x 148.3 mm Net Weight 65 kg Battery Optimizer Model RMH95050 DC Working Voltage 550 - 950 V Nominal Power 15 kW Dimension (W×D×H) 650 x 250 x 250 mm Net Weight 15 kg Inverter Model SUN20000T-EI SUN30000T-EI Inverter Model SUN20000T-EI SUN30000T-EI Input (PV) 45000 340 ~ 800 Max. Power (W) 340 ~ 800 270 ~ 800 340 ~ 800 MPT Range (Full Load) (v) 340 ~ 800 270 ~ 800 340 ~ 800 Max. DC Voltage (V) 1000 340 ~ 800 30 / 30 / 30 / 30 / 30 / 30 / 30 / 30 /	Max. Continuous Working Current		50 A	
Initiation (No. 14) 65 kg Battery Optimizer Model RMH95050 DC Working Voltage 550 - 950 V Nominal Power 15 kW Dimension (W×D×H) 650 x 250 x 250 mm Net Weight 15 kg Inverter Model SUN20000T-EI SUN30000T-EI Input (PV) 45000 340 ~ 800 Max. Power (W) 45000 340 ~ 800 MPPT Range (Full Load) (V) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (V) 1000 340 ~ 800 30 / 30 30 / 30/ 30 Max. DC Voltage (V) 30 / 30 30 / 30 / 30 30 / 30/ 30 30 / 30/ 30 Max. DC Current (A) 30 / 30 30 / 30 / 30 30 / 30 / 30 30 / 30 / 30	Cycle Life		6000 @ 25°C,90% DOD, 0.5P / 0.5P, 70% EOL	
Battery Optimizer Model RMH95050 DC Working Voltage 550 - 950 V Nominal Power 15 kW Dimension (W×D×H) 650 x 250 x 250 mm Net Weight 15 kg Inverter Model SUN20000T-EI SUN30000T-EI Input (PV) 45000 340 ~ 800 Max. Power (W) 45000 340 ~ 800 MPPT Range (Full Load) (V) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (V) 160 ~ 950 1000 1000 Max. DC Voltage (V) 180 30/30/30 30/30/30 Max. DC Current (A) 30/30 30/30/30 30/30/30 MPP Tracker No. 2 3 3	Dimension (W×D×H)		500 x 760 x 148.3 mm	
DC Working Voltage 550 - 950 V Nominal Power 15 kW Dimension (W×D×H) 650 x 250 x 250 mm Net Weight 15 kg Inverter Model SUN20000T-EI SUN30000T-EI Input (PV) 45000 340 ~ 800 Max. Power (W) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (Full Load) (V) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (V) 160 ~ 950 160 ~ 950 160 ~ 950 Max. DC Voltage (V) 1000 180 30 / 30 / 30 Max. DC Voltage (V) 30 / 30 30 / 30 / 30 30 / 30 / 30 Max. DC Current (A) 30 / 30 30 / 30 / 30 30 / 30 / 30 Max. DC Current (A) 2 3 3	Net Weight		65 kg	
Nominal Power 15 kW Dimension (W×D×H) 650 x 250 x 250 mm Net Weight 15 kg Inverter Model SUN20000T-EI SUN30000T-EI Input (PV) 45000 340 ~ 800 Max. Power (W) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (Full Load) (V) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (V) 160 ~ 950 1000 1000 Start Voltage (V) 180 30 / 30 30 / 30 / 30 Max. DC Current (A) 30 / 30 30 / 30 / 30 30 / 30 / 30 May. PD Tracker No. 2 3 3	Battery Optimizer Model		RMH95050	
Dimension (W×D×H) 650 × 250 mm Net Weight 15 kg Inverter Model SUN20000T-EI SUN30000T-EI Input (PV) 45000 1000 Max. Power (W) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (Full Load) (V) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (V) 160 ~ 950 1000 1000 Start Voltage (V) 180 30 / 30 30 / 30 / 30 Max. DC Current (A) 30 / 30 30 / 30 / 30 30 / 30 / 30 MPP Tracker No. 2 3 3	DC Working Voltage		550 - 950 V	
Net Weight Is kg Inverter Model SUN20000T-EI SUN25000T-EI SUN30000T-EI Input (PV) Max. Power (W) 45000 340 ~ 800 360<	Nominal Power		15 kW	
Inverter Model SUN20000T-EI SUN25000T-EI SUN30000T-EI Input (PV) 45000	Dimension (W×D×H)		650 x 250 x 250 mm	
Input (PV) 45000 Max. Power (W) 45000 MPPT Range (Full Load) (V) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (V) 160 ~ 950 1000 1000 Max. DC Voltage (V) 180 180 Max. DC Current (A) 30 / 30 30 / 30 / 30 30 / 30 / 30 MPP Tracker No. 2 3 3	Net Weight		15 kg	
Max. Power (W) 45000 MPPT Range (Full Load) (V) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (Full Load) (V) 340 ~ 800 160 ~ 950 340 ~ 800 MPPT Range (V) 160 ~ 950 1000 1000 Max. DC Voltage (V) 180 30 / 30 30 / 30 / 30 Max. DC Current (A) 30 / 30 30 / 30 / 30 30 / 30 / 30 MPP Tracker No. 2 3 3	Inverter Model	SUN20000T-EI	SUN25000T-EI	SUN30000T-EI
MARE Force (Fr) 340 ~ 800 270 ~ 800 340 ~ 800 MPPT Range (Full Load) (V) 340 ~ 800 160 ~ 950 Max. DC Voltage (V) 1000 1000 Start Voltage (V) 180 30 / 30 / 30 Max. DC Current (A) 30 / 30 30 / 30 / 30 MPP Tracker No. 2 3 3	Input (PV)			
MPPT Range (V) 160 ~950 Max. DC Voltage (V) 1000 Start Voltage (V) 180 Max. DC Current (A) 30 / 30 MPP Tracker No. 2 3	Max. Power (W)		45000	
Max. DC Voltage (V) 1000 Start Voltage (V) 180 Max. DC Current (A) 30/30 30/30/30 MPP Tracker No. 2 3 3	MPPT Range (Full Load) (V)	340 ~ 800	270 ~ 800	340 ~ 800
Start Voltage (V) 180 Max. DC Current (A) 30/30 30/30/30 MPP Tracker No. 2 3 3	MPPT Range (V)		160 ~950	
Max. DC Current (A) 30/30 30/30/30 30/30/30 MPP Tracker No. 2 3 3	Max. DC Voltage (V)		1000	
MPP Tracker No. 2 3 3	Start Voltage (V)		180	
	Max. DC Current (A)	30/30	30 / 30 / 30	30/30/30
String No. 2+2 2+2+2 2+2+2	MPP Tracker No.	2	3	3
5	String No.	2+2	2+2+2	2+2+2

Input (DC BUS)

Compatible Battery Type		Lithium-ion	
Bus Voltage Range (V)		550-950	
Max. Charge / Discharge Current (A)		50	
Lithium Battery Charge Curve		Self-adaption to BMS	
Output (On Grid)			
Nom. Power (Output) (W)	20000	25000	30000
Maximum Apparent Power (Output) (VA)	22000	27500	33000
Nominal Voltage (V)		380 / 400 V (Three Phase)	
Nominal AC Frequency (Hz)		50 / 60 Hz	
Nominal Current (Output) (A)	3 * 33.33 / 3 * 28.9	3*41.67/3*36.3	3*43.5/3*43.5
Maximum Current (Input) (A)		3*63	
Output (BackUp)			
Nom. Power (VA)	20000	25000	30000
Maximum Power (5min) (VA)	24000	30000	36000
Apparent Power (10s) (VA)	30000	37500	45000
Nom. Bypass Power (VA)		45000	
Nominal Back-up Voltage (V)		380 / 400 V (Three phase)	
Nominal Back-up Frequency (Hz)		50 / 60 Hz	
Nominal Back-up Current (A)	3* 33.33 / 3 * 28.9	3 * 41.67 / 3 * 36.3	3 * 43.5 / 3 * 43.5
THDV		<3% (R Load), 5% (RCD Load)	
Efficiency			
Max. Efficiency (PV to Grid)	98.8%	98.8%	98.8%
Eur. Efficiency (PV to Grid)	97.2%	97.9%	97.9%
Max. Charge Efficiency (PV to Battery)	98%	98%	98%
Max. Charge/Discharge Efficiency (Grid to	Battery) 98%	98%	98%
General			
Temp. Range	-25~60°C	Noise Emission	45 dB
Max. Operation Altitude	4000 m	Humidity	0-100%
Topology	Transformerless	Cooling	Smart Fan
Protection	IP65		
HMI & COM			
Display		LED+APP (Bluetooth)	
Communication Interface		th), BMS (CAN / RS485), Wi-Fi / GPRS / 4G / E	
Protection	DI (DRM7	RCR), Meter (RS485), 1* DO, USB (Firmware	opgrade)
		AC Chart size it Destantion AC Ourse when	
5		, AC Short-circuit Protection, AC Over-voltag	e Protection, insulation Detection
	2 AECI	Optional RSD	Optional
SPD DC Type 2, AC Type	2 AFCI	Optional RSD	Optional
Mechanical		optional	
Mechanical WxHxD 650 x 500 x 265 m		optional	Optional witch Internal
Mechanical W x H x D 650 x 500 x 265 m System Parameters		40 kg DC S	
Mechanical W x H x D 650 x 500 x 265 m System Parameters Ambient Temperature		40 kg DC S -20°C~50°C (>45°C Derating)	
Mechanical WxHxD 650 x 500 x 265 m System Parameters Ambient Temperature Parallel		40 kg DC S -20°C~50°C (>45°C Derating) 6	
Mechanical WxHxD 650 x 500 x 265 m System Parameters Ambient Temperature Parallel Storage Environment Temperature	nm Weight	40 kg DC S -20°C~50°C (>45°C Derating) 6 0°C~40°C	
Mechanical WxHxD 650 x 500 x 265 m System Parameters Ambient Temperature Parallel Storage Environment Temperature Relative Humidity of Working Environment	nm Weight	40 kg DC S -20°C~50°C (>45°C Derating) 6 0°C~40°C 5~95%, Non-condensing	
Mechanical WxHxD 650 x 500 x 265 m System Parameters Ambient Temperature Parallel Storage Environment Temperature Relative Humidity of Working Environment Cooling Method	nm Weight	40 kg DC S -20°C~50°C (>45°C Derating) 6 0°C~40°C 5~95%, Non-condensing Intelligent Air-cooled Air conditioner	
Mechanical W x H x D 650 x 500 x 265 m System Parameters Ambient Temperature Parallel Storage Environment Temperature Relative Humidity of Working Environmer Cooling Method Noise Level	nm Weight	40 kg DC S -20°C~50°C (>45°C Derating) 6 0°C~40°C 5~95%, Non-condensing Intelligent Air-cooled Air conditioner 60dB	witch Internal
Mechanical W x H x D 650 x 500 x 265 m System Parameters Ambient Temperature Parallel Storage Environment Temperature Relative Humidity of Working Environment Cooling Method Noise Level Firefighting Methods	nm Weight	40 kg DC S -20°C~50°C (>45°C Derating) 6 0°C~40°C 5~95%, Non-condensing Intelligent Air-cooled Air conditioner 60dB evel + Cabinet-level Gas Fire Protection (Aer	witch Internal
Mechanical W x H x D 650 x 500 x 265 m System Parameters Ambient Temperature Parallel Storage Environment Temperature Relative Humidity of Working Environment Cooling Method Noise Level	nm Weight	40 kg DC S -20°C~50°C (>45°C Derating) 6 0°C~40°C 5~95%, Non-condensing Intelligent Air-cooled Air conditioner 60dB evel + Cabinet-level Gas Fire Protection (Aer 20 ms	witch Internal
Mechanical W x H x D 650 x 500 x 265 m System Parameters Ambient Temperature Parallel Storage Environment Temperature Relative Humidity of Working Environment Cooling Method Noise Level Firefighting Methods	nm Weight	40 kg DC S -20°C~50°C (>45°C Derating) 6 0°C~40°C 5~95%, Non-condensing Intelligent Air-cooled Air conditioner 60dB evel + Cabinet-level Gas Fire Protection (Aer	witch Internal
Mechanical W x H x D 650 x 500 x 265 m System Parameters Ambient Temperature Parallel Storage Environment Temperature Relative Humidity of Working Environment Cooling Method Noise Level Firefighting Methods Off-Grid Switching Time	nm Weight	40 kg DC S -20°C~50°C (>45°C Derating) 6 0°C~40°C 5~95%, Non-condensing Intelligent Air-cooled Air conditioner 60dB evel + Cabinet-level Gas Fire Protection (Aer 20 ms	witch Internal
Mechanical W x H x D 650 x 500 x 265 m System Parameters Ambient Temperature Parallel Storage Environment Temperature Relative Humidity of Working Environment Cooling Method Noise Level Firefighting Methods Off-Grid Switching Time Working Altitude	nm Weight	40 kg DC S -20°C~50°C (>45°C Derating) 6 0°C~40°C 5~95%, Non-condensing Intelligent Air-cooled Air conditioner 60dB evel + Cabinet-level Gas Fire Protection (Aer 20 ms 4000m (>2000m Derating)	witch Internal
Mechanical W x H x D 650 x 500 x 265 m System Parameters Ambient Temperature Parallel Storage Environment Temperature Relative Humidity of Working Environment Cooling Method Noise Level Firefighting Methods Off-Grid Switching Time Working Altitude Installation Method	nm Weight	40 kg DC S -20°C~50°C (>45°C Derating) 6 0°C~40°C 5~95%, Non-condensing Intelligent Air-cooled Air conditioner 60dB evel + Cabinet-level Gas Fire Protection (Aer 20 ms 4000m (>2000m Derating) Floor-to-ceiling Installation	witch Internal
Mechanical W × H × D 650 × 500 × 265 m System Parameters Ambient Temperature Parallel Storage Environment Temperature Relative Humidity of Working Environment Cooling Method Noise Level Firefighting Methods Off-Grid Switching Time Working Altitude Installation Method Communication Model	nm Weight	40 kg DC S -20°C~50°C (>45°C Derating) 6 0°C~40°C 5~95%, Non-condensing Intelligent Air-cooled Air conditioner 60dB evel + Cabinet-level Gas Fire Protection (Aer 20 ms 4000m (>2000m Derating) Floor-to-ceiling Installation RS485, CAN, Dry, WI-FI	witch Internal

Note: All data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions

Air-Cooled Energy Storage System

The all-in-one air-cooled ESS cabinet is suitable for various applications, including empowering microgrid scenarios, enhancing power quality, performing peak shaving and load shifting, and ensuring load power supply. It delivers an economical, reliable, and secure energy solution for users.





All-In-One

Highly integrated and pre-installed with battery packs, a high-voltage battery box, an intelligent cooling unit, and more in a single cabinet, saving both space and installation time for faster deployment.



Flexible Configuration

For on-grid ESS projects, the system supports up to 12 cabinets in parallel, reaching 1,200kW/2,580kWh. For off-grid applications, it supports up to 4 cabinets in parallel, providing 400kW/860kWh.



Ultimate Safety

Built-in pack-level and cabinet-level fire extinguishing systems and environmental control units mitigate potential risks, ensuring safety for both facility and personnel during operation.



Customizable Solution

The standardized structure design with menu-based function configuration can be customized with optional components, including a PV charging module, off-grid switching module, power frequency transformer, and more, creating a fully integrated PV storage system cabinet.





IP54 Rated Protection

Designed with an IP54 rating, providing robust protection against dust and water ingress. This ensures reliable performance in tough environmental conditions, making it ideal for both indoor and outdoor installations.

Air-Cooled **Energy Storage System Structure**



Cabinet Internal Structure



Technical Specifications

Model	
Battery System Specifications	
Battery Rated Energy Storage Capacity	
System Rated Voltage	
System Voltage Range	
Battery Type	
Battery Pack Series and Parallel Connection	
Battery Pack Capacity	
Maximum Charge and Discharge Current	
PV Specifications	
Maximum DC Power	
DC Working Voltage Range	
Low Voltage Side Full Load Voltage Range	
Maximum Current at Low Voltage Side	
Low Voltage Side Input Channels	2 (2 cha
AC Input	
Rated AC Power	
Rated AC Current	
Rated AC Voltage	
Rated AC Frequency	
Overload Capacity	
Maximum Efficiency	
Current Total Harmonic Distortion Rate THDI	
Power Factor	
Voltage Total Harmonic Distortion THDU	
General Specifications	
Enclosure Rating	
Protection Class	
Isolation Method	
Power Consumption during Shutdown	
HMI	
Relative Humidity	
Noise	
Operating Temperature	
Cooling Method	
Altitude	
BMS Communication	
EMS Communication	
Cloud Platform	
Dimensions (W x D x H)	
Weight	

CS100KT 215-E/H

215kWh

768V

672-876V

Lithium iron phosphate battery (LFP-280Ah)

1P205/12S

17.92kWh

184A

55kW*2

200V~1000V

312V~850V

80A*2/2

annels can be independent, can be paralleled as I channel)

100kW

144A

400V, 3W+N+PE

50/60Hz

110%, normal operation; 120%, 1 minute

98.80%

<5% (Rated power)

-1 leading~+1 lagging

<3% (Linear load)

IP54

Class 1

Transformer isolation

<100W (Without transformer)

Touch screen

0~95% (No condensation)

Less than 80dB

-20°C~55°C (Derating above 50°C)

Intelligent air cooling

2000m (over 2000m derating)

CAN

Ethernet / 485

Optional

1800*1200*2300mm

Approx. 3300kg

Note: All data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions

Liquid-Cooled Energy Storage System

100kW/232kWh 100kW/261kWh

The all-in-one liquid-cooled ESS cabinet features advanced cabinet-level liquid cooling and temperature balancing strategies, which enhance temperature consistency and extend battery life. The modular design offers greater flexibility in parallel solutions, significantly improving cost-effectiveness, safety, and ease of construction for C&I ESS projects.







All-In-One

Highly integrated and pre-installed with battery packs, a high-voltage battery box, a liquid cooling unit, and more in a single cabinet, saving both space and installation time for faster deployment.



Efficient Cooling

Advanced variable frequency liquid cooling technology keeps the cabinet's temperature difference within 3°C, extending cell life by up to 30%.



Ultimate Safety

Built-in pack-level and cabinet-level fire extinguishing systems and environmental control units mitigate potential risks, ensuring safety for both facility and personnel during operation.



Flexible Configuration

For on-grid ESS projects, the system supports up to 12 cabinets in parallel, reaching 1,200kW/2,784kWh. For off-grid applications, it supports up to 4 cabinets in parallel, providing 400kW/928kWh.



IP54 Rated Protection

Designed with an IP54 rating, providing robust protection against dust and water ingress. This ensures reliable performance in tough environmental conditions, making it ideal for both indoor and outdoor installations.

Liquid-Cooled **Energy Storage System Structure**





Technical Specifications

Model	CS100KT232-E/H	CS100KT 261-E/H
Battery Parameters		
Battery Rated Energy Storage Capacity	232 kWh	261kWh
System Rated Voltage	832	V
System Voltage Range	728 - 93	36 V
Battery Type	ithium iron phosphate battery (LFP-280 Ah)	Lithium iron phosphate battery (LFP-314Ah
Battery Pack Series and Parallel Connection	1P52S/	/5S
Battery Pack Capacity	46.592 kWh	52.249kWh
Maximum Charge and Discharge Current	140 A	157A
PV Specifications		
Maximum DC Power	55 kW	*2
DC Working Voltage Range	200 V ~ 10	000 V
Low Voltage Side Full Load Voltage Range	312 V ~ 8	250 V
Maximum Current at Low Voltage Side	80 A * 2	2/2
Low Voltage Side Input Channels	2 (2 channels can be independent,	can be paralleled as 1 channel)
AC Output		
Rated AC Power	100kW, 50kW p	per module
Rated AC Current	144/	A
Rated AC Voltage	400V, 3W	+N+PE
Rated AC Frequency	50 / 60	Hz
Overload Capacity	110%, normal operatio	on; 120%, 1 minute
Maximum Efficiency	98.80	%
Current Total Harmonic Distortion Rate THE	DI <5% (Rated	power)
Power Factor	-1 leading~+	lagging
Voltage Total Harmonic Distortion THDU	<3% (linea	r load)
General Specifications		
Enclosure Rating	IP54	÷
Protection Class	Class	51
Isolation Method	Transformer	isolation
Power Consumption during Shutdown	<100W (without	transformer)
НМІ	Touch so	creen
Relative Humidity	0 ~ 95% (no cor	ndensation)
Noise	<70 d	IB
Operating Temperature	-20°C~55°C (Derati	ng above 50°C)
Cooling Method	Intelligent ai	ir cooling
Altitude	2000m (over 200	0m derating)
BMS Communication	CAN	1
EMS Communication	Ethernet	/ 485
Cloud Platform	Option	nal
	1012	
Dimensions (W x D x H)	1612 x 1350 x 2300 mm	1650*1350*2300 mm

Note: All data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions

High-Voltage Energy Storage System

61.44kWh / 215kWh

Designed to deliver more reliable, longer-lasting power to industrial and commercial operations

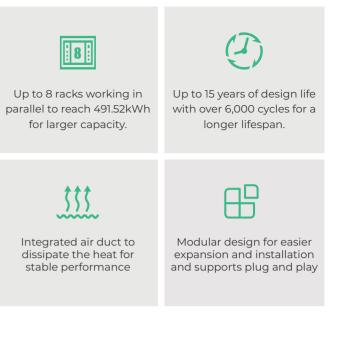
Features	Advanced LFP cells for high efficiency and safety and zero maintenance.	
	>	
Compatible with leading inverter brands such as Deye, Solis, and Solinteg.	Supports 1C continuous discharge rate for enhanced power output during high-demand periods	

tput during and periods

Technical Specifications

Model	CBmax60H-BR		CBmax215H-BR
Battery Parameters			
Cell Type		LiFePO4	
Nominal Energy	61.44 kWh (192s1p)		215kWh(240s1p)
Nominal Capacity	104 Ah		280Ah
Nominal Voltage	614.4 Vdc		768V
Voltage Range	547.2 Vdc ~ 691.2 Vdc		672-876V
Max. Charging/Discharge Current	50 A / 100 A		140A/140A
DOD		95%	
Communication		CAN,RS485	
Parallel Capacity Expansion		8 in Parallel	
Size (L x W x H)	580 x 650 x 2200 mm		1100 x 1000 x 2200 mm
Weight	≈685 kg		2100 kg
Operating Temperature		Charge: 0~50 °C; Discharge: -20~50	⊃°C
Humidity		5~95% RH, No Condensation	
Altitude		<2000 m	
Enclosure Rating		IP20	
Installation Type		Indoors, Rack Installation	
Cycle		>6000 @25 °C @0.5 C	
Note: All data are based on ROYPOW standar	d test procedures. Actual performance	may vary according to local conditions	

data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions



PC15KT Mobile Energy Storage System

From 15 kW / 33 kWh to 90kW / 198kWh

Ideal for microgrids, load shifting, renewable energy consumption, energy buffers, off-grid power supply, backup power applications, etc.

All-in-one

Mobile battery system, hybrid inverter, solar MPPT, 4G modem, fire extinguishing system, distribution system, LCD screen, and smart EMS.



Intelligent Management

Integrated EMS & 4G LTE modem, supporting remote monitoring of devices through web and app.



Flexible Configuration

Adjustable configurations to achieve optimal cost-effectiveness. Up to 6 batteries in parallel for capacity expansion. Up to 6 cabinets for parallel use.



Plug and Play

The system is pre-installed. Just make simple settings to use.



High Safety Standard

Using high-safety performance lithium iron phosphate batteries. Meets standards such as NFPA855, EN50549, and UL.

3 → Three-phase Power Output

Supports three-phase and single-phase power charging and three-phase and single-phase power output.







Enhanced Reliability

The battery offers excellent vibration resistance, and the inverter has been reinforced for added durability.



Generator Connection

Can be connected to diesel/gasoline generators. Support automatic control, starting charging when low and shutting off once fully charged.

PowerCompact Series System Composition



Specifications

Model

Rated Power	15 kW (90 kW / 6 in Parallel)		
Rated Voltage / Frequency	380 V / 400 V 50 / 60 Hz		
Rated Current	3 x 21.8 A		
Single-Phase	220V / 230V AC, Rate power 5KW; Max 7.5KW @ 1 hour		
Apparent Power	22500 kVA		
AC Connection	3W+N		
Overload Capacity	120% @10min / 200% @10S		
AC Input (Charging)			
Rated Power	15 kW		
Rated Voltage / Current	380 V / 400 V 22.5 A		
Single Phase / Current	220 V / 230 V 22 A (Optional), Single phase to three phases converter (optional accessory		
THDI	≤3%		
AC Connection	3W+ N		
Battery			
Battery Chemistry	LiFePO4		
DoD	90%		
Rated Capacity	33 kWh (Max. 198 kWh / 6 in Parallel)		
Voltage	550 ~ 950 VDC		
DC Input (PV)			
Max. Power	30 kW		
Number of MPPT / Number of MPPT	Input 2-2		
Max. Input Current	30 A / 30 A		
MPPT Voltage Range	160 ~ 950 V		
Number of String per MPPT	2/2		
Start-up Voltage	180 V		
Physical			
Ingress Rating	IP54		
Scalability	Max. 6 in Parallel		
Relative Humidity	0 ~ 100% Non-condensing		
Fire Suppression System	Hot Aerosol (Cell & Cabinet)		
Max. Efficiency	98% (PV to AC); 94.5% (BAT to AC)		
Topology Operating Ambient	Transformerless		
Temperature	-20 ~ 50°C (-4 ~ 122°F)		
Noise Emission (dB)	≤ 70		
Cooling	Natural Cooling		
Altitude (m)	4000 (>2000 Derating)		
Weight (kg)	670 kg (1477 lbs)		
Dimensions (LxWxH)	1100 x 1100 x 1000 mm (43.3 x 43.3 x 39.3 inch)		
Chan dand Cameralia	Battery: CB (IEC 62619), UN38.3		
Standard Compliance	System: CE-EMC (EN 61000-6-2/4); CE-LVD(EN 62477-1; EN 62109-1/2;)		

1. All pictures shown are for reference only and data are based on ROYPOW standard test procedures. 2. Actual performance may vary according to local conditions. Only authorized personnel are allowed to operate or make adjustments to the batteries. 3.We reserve the right to make revisions as well as product alterations and improvements at any time without prior notice.

PC15KT-E/A

Diesel Generator Hybrid Energy Storage System

Saving Fuel Consumption up to **30%**

Makes Diesel Generator Set Energy Saving and Efficientt

X65K1

Why DG Mate Series?

High Power Motors

have been widely used in industries such as construction, mechanical manufacturing, mining, rail transit nemical, et



X250KT

251K

How to choose a DG Assumed load: Peak Power: 530 kW, Rated power: 200 kW

Traditional Proposal

If a Diesel Generator is adopted as power source:





Initial Overpurchase for a high power DG is necessary to match the maximum starting current of the motors



High Fuel Consumption is certain because of frequent motor starts and long-term operation at low power

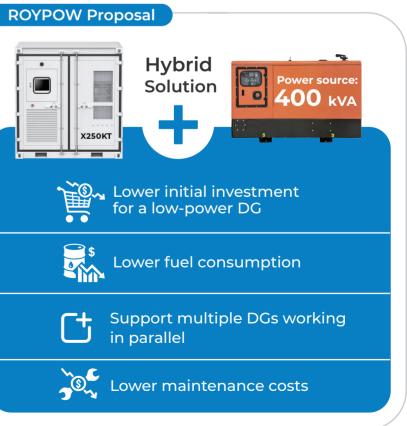


Capacity Expansion is not possible for the conventional diesel generators



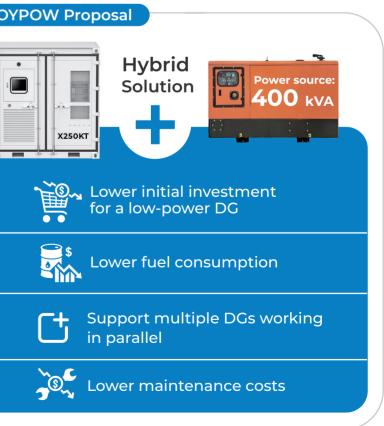
High Maintenance Costs due to frequent motor starts and high inrush current

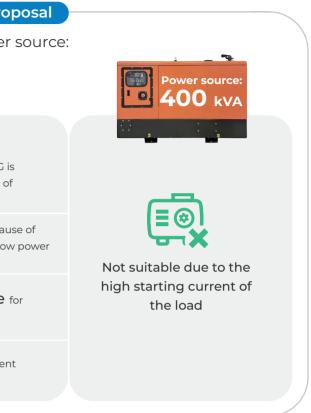






No need to purchase high capacity DG due to the mutual power output from X250KT

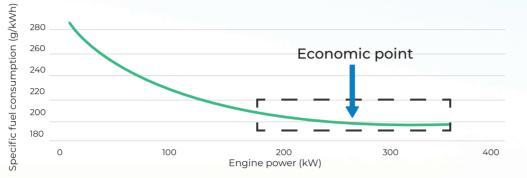




X250KT Diesel Generator + Energy Storage System Solution

30% Savings on Diesel Fuel Consumption

ROYPOW X250KT intelligently and efficiently manages the output power of the engine at 50% to 70% of the rated power of the DG, ensuring that the DG operates at the lowest fuel consumption rate and helping achieve fuel consumption reduction.



Relationship between engine power and fuel consumption

250 kW Output

ROYPOW X250KT supports up to 250 kW continuous power output for 30 seconds to address the issues of high motor startup currents and load impacts, extending the lifespan of diesel generators, reducing failure rates, and decreasing maintenance frequency and costs.

Advantages of X250KT DG + ESS Solution

All-In-One Integrated Battery + SEMS + SPCS

Hybrid Mode Uninterrupted Power Supply

Up to 4 Sets in Parallel Scalable Power and Capacity to

Support Demanding Load

Load Sharing Synchronize the Output Power with DG



Rapid Deployment Support Lifting and Forklift Transporation



Ð

No Additional Complex Installation Required

29

Saving Fuel Consumption up to





AC-Coupling

Connect to Diesel Generators, Grid. and PV



Intelligent Management

Remote Monitoring via App and Web



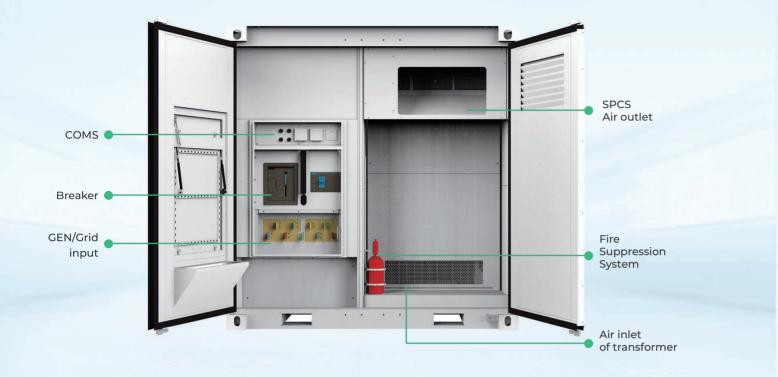
Excellent Adaptability

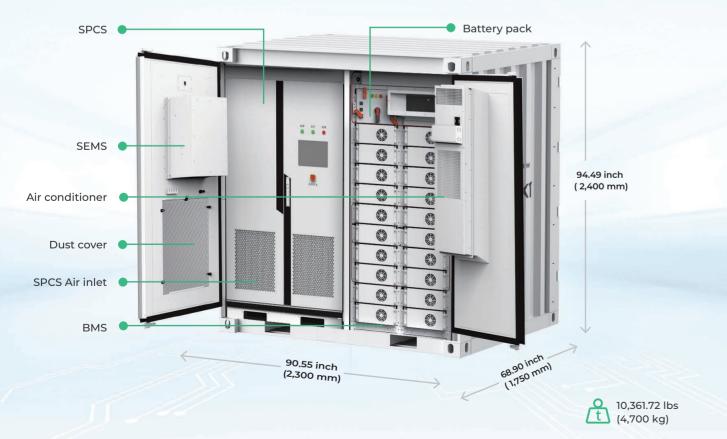
Stable Performance in Harsh Environments



30

X250KT DG + ESS Solution Structure





Technical Specifications

Model

AC Output Data (On-grid Mode)		
Rated Power	150 kW	
Max. Rated / Apparent Power	250 kW / 280 kVA ^[1]	
Rated Voltage	400 V (±15%)	
Rated Current	220 A	
Grid Frequency	50 Hz	
AC Connection	3 W + N	
THDI	≤ 3%	
Power Factor	-] ~ +]	
AC Output Data (Off-grid Mode)		
Rated Power	250 kW	
Max. Rated / Apparent Power	250 kW / 250 kVA [1]	
Rated Voltage / Frequency	400 V / 50 Hz	
THDV (Linear Load)	≤3%	
Battery Data		
Battery Chemistry	LiFePO4	
Nominal Energy	153.6 kWh	
Working Voltage Range	600 V ~ 876 V	
Nominal Charging Current	100 A	
Nominal Discharging Current	200 A	
Max. Discharging Current	300 A	
DOD	90%	
Compatible Diesel Generator		
Rated Power	≤400 kVA	
Rated Voltage	400 V	
Rated Frequency	50 Hz	
General		
Parallel Capable	Yes (Up to 4)	
EMS	SEMS3000 12 inch LCD Touch Panel	
Ingress Rating	IP54	
Тороlоду	Transformer	
Working Temperature	-4 ~ 122°F (-20 ~ 50°C)	
Storage Temperature	-40 ~ 149°F (-40 ~ 65°C)	
Relative Humidity	5 ~ 95% (No condensing)	
System Noise	<65dB	
Cooling	Air cooling (Inverter room)	
Fire Suppression System	Included	
Altitude	5,000 (>3,000 derating)	
Dimensions, LxWxH	90.55 x 68.90 x 94.49 inch (2,300 x 1,750 x 2,44	
Weight	10,361.72 lbs (4,700 kg)	

[1] Depends on the output power of the battery system.

Note: All data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions



X250KT-E/A

150 kW
250 kW / 280 kVA ^[1]
400 V (±15%)
220 A
50 Hz
3 W + N
≤ 3%
-1 ~ +1

250 kW
250 kW / 250 kVA [1]
400 V / 50 Hz
≤3%

LiFePO ₄		
153.6 kWh		
600 V ~ 876 V		
100 A		
200 A		
300 A		
90%		

≤400 kVA
400 V
50 Hz

Yes	Up to 4)

0 mm)

 X65kT
 65 kW Output

 Diesel Generator + Energy Storage System Solution

All-In-One Integrated Battery + SEMS + SPCS

Up to 4 Sets in Parallel

Scalable Power and Capacity to

Support Demanding Load

A **Rapid Deployment**



Plug and Play

Installation Required

No Additional Complex

Ð

AU AC-Coupling Connect to Diesel Generators, Grid, and PV

Intelligent Management Remote Monitoring via App and Web



2866.0 lbs (1,300 kg) **∫**t

Technical Specifications

Model

AC Output Data (On-grid Mode)

Rated Power Apparent Power Rated Voltage Rated Current Grid Frequency AC Connection THDI Power Factor

AC Output Data (Off-grid Mode)

Rated / Apparent Power

Rated Voltage / Frequency THDV (Linear Load)

Battery Data

Battery Chemistry

Nominal Energy

Nominal Charging Current

Nominal Discharging Current

Working Voltage Range

Max. Output Power

DOD

Compatible Diesel Generator

Rated Power

Rated Voltage

Rated Frequency

General

Weight

Parallel Capable EMS Ingress Rating Topology Working Temperature Storage Temperature **Relative Humidity** System Noise Cooling Fire Suppression System Altitude Dimensions, W x H x D

Note: All data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions

X65KT-E/A

65 kW	
71.5 kVA	
400 V	
95 A	
50 Hz	
3 W + N	
≤ 3%	
-] ~ +]	

65 kW / 71.5 kVA 400V / 50Hz ≤3%

LiFePO₄ 76.8 kWh 50 A 100 A 600 V ~ 876 V 65 kW

90%

≤120 kVA 400 V 50 Hz

Yes (Up to 4)

SEMS3000 12 inch LCD Touch Panel

IP54

Transformer

4 ~ 122°F (-20 ~ 55°C)

104 ~ 149°F (-40 ~ 65°C)

5 ~ 95% (No condensing)

<65 dB

Intelligent temperature control (Battery room) Air cooling (Inverter room)

Included

5,000 (>3,000 derating)

45.27 x 78.74 x 49.21 inch (1150 x 2000 x 1250 mm)

2,866 lbs (1,300 KG)