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Energy-Efficient & Cost-Effective C&I ESS

PowerCompact Series PC15KT Mobile Hybrid Energy Storage System

Unlock Great Power & Profit for Your Projects



ROYPOW Technology Co., Ltd.

Tel: +86 (0)752-327 9099

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

Web: www.roypow.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

Service Support: +1 626 269 0547 Email: service@roypowusa.com

Web: www.roypow.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 PI 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: Seattleweg 1, 3195 ND, Pernis, 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







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



Product Certifications:



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

Timely Delivery

Hassle-free

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
- > Mobile Energy Storage Systems







Advanced MES System

After-sales Service



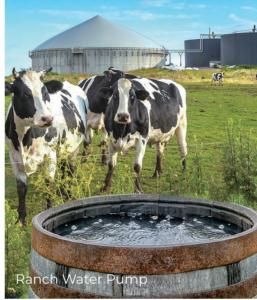
Fast Response Technical Support

- Commercial & Industrial Energy Storage Systems
- > Motors, Controllers and Chargers

ROYPOW Mobile Hybrid ESS Solution

For small-scale C&I energy applications, ROYPOW's mobile hybrid ESS is the ideal choice, offering a compact, flexible, and cost-effective energy storage solution to meet the demands of power backup, peak shaving, and seamless integration with renewable energy sources. Businesses can optimize energy usage, lower costs, enhance sustainability, etc.











- Compact, integrated design for easy installation and transportation
- ✓ Easy parallel connection for specific project needs
- \checkmark Connect to DG and solar panels
- ✓ Built tough to withstand harsh working conditions
- ✓ Intelligent management





- High fuel consumption and costs
- Remote monitoring not allowed for most DGs
- Frequent maintenance and oil changes required
- Air pollution and excessive noise



Standard C&I Energy Solution

- Bulky size and heavy weight. Difficult to carry Suitable for use in fixed locations
- Cannot be moved frequently
- Poor vibration resistance
- High initial purchase cost
- Require professional personnel for operation



Portable Power Solution

- Small battery capacity & short battery life
- Low power, not suitable for mechanical equipment
- Not support 3-phase 380V output, generator charging, or remote monitoring
- Poor overload capacity
- Interface not waterproof

Advantages of ROYPOW Mobile Hybrid ESS

PC15KT

10kW DG

Eliminate the Need for A Higher-Power DG

Starting a 7kW electric motor—an inductive load requiring 3 to 5 times its rated power for startup—is beyond the capacity of a 10kW DG. ROYPOW system delivers up to 30kW of power output for 10 seconds, effortlessly handling demanding loads, eliminating the need for a higher-power DG, and reducing fuel consumption and associated costs.

7kW Electric Motor

(Inductive Load)

Generator Connection with Automatic Charging

When undercharged, the system automatically start the diesel generator for charging and shuts it down once fully charged.

Designed with robust internal reinforcements for the inverter and batteries, the system ensures greater vibration resistance and reliability, effectively minimizing risks of instability or damage during frequent transportation.

Rugged and Reliable



Features



Three-phase Power Output

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

Flexible & Fast Charging

Charge from PV, generators, and solar panels. Support < 2 hours of fast charge

Intelligent Management

12)

Supports 4G LTE remote monitoring of energy status via App and Web



Pre-installed, no additional complex installation required







10kW DG

7kW Electric Motor (Inductive Load)



GPS Tracking

Enables real-time monitoring of system location and ensure equipment safety







High Safety

Equipped with safe lithium-ion batteries and cabinet-level fire exthinguishing system.



IP54 Ingress Rating

Can be placed in outdoor areas

Up to 6 Units in Parallel

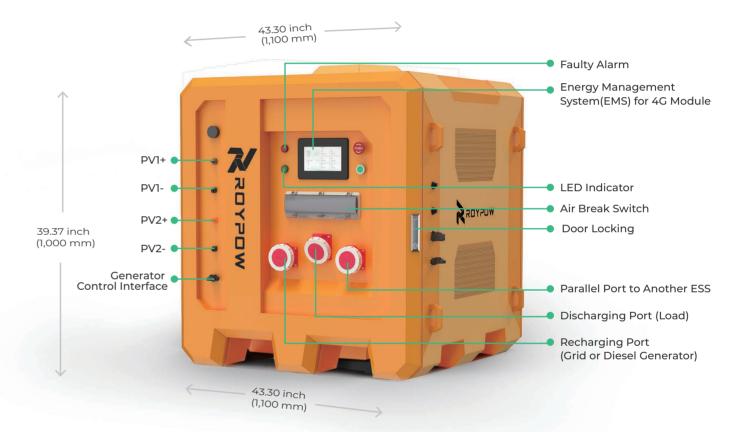
Scalable up to **90kW / 198kWh.** Supports battery-only parallel connection.

Support **PV** Charging

Work as a supplementary energy solution that reduces fuel usage and environmental impact.



PowerCompact Series PC15KT System Composition





Specifications

Model

PC15KT-E/A

AC Output (Discharging))
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	LiFePO ₄
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	Clinput 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)
Standard Compliance	Battery: CB (IEC 62619), UN38.3 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.

Cases



Farm Project Power Supply for Water Pumps



Temporary Power Supply Project Power Supply for Electric Impact Drills



Construction Site Project Power Supply for Small Electrical Equipment



Construction Site Project Support Power Supply and Power Backup