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Version: February 07, 2025, PowerCompact Series - Mobile Hybrid Energy Storage System



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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



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Scan it!

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



750+ Employees
190+ R&D People
105,000 m² Headquarters Floor Area
2,500 m² Testing Center
231 Patents

Quality Control Certificates:

- ✓ Environmental Management System: ISO 14001:2015
- ✓ Occupational Health and Safety Management System: ISO 45001:2018
- ✓ 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:

UL 1973, UL 9540A, UL 9540, UL 2580, UL 2271, UL 1741
 IEC 62619
 EN 62477, EN 62040, (EU) 2023/1542, EN 62109-1, EN 62109-2

UL **EMC** **FCC, IEC/EN 61000-6, BS EN IEC 61000-6**
GRID **Function Safety** **IEC 60730, ISO 13849-1**
CB **Transport** **UN 38.3**
CE **RoHS** **RoHS Directive 2011/65/EU & (EU) 2015/863**

R&D and Manufacturing Highlights

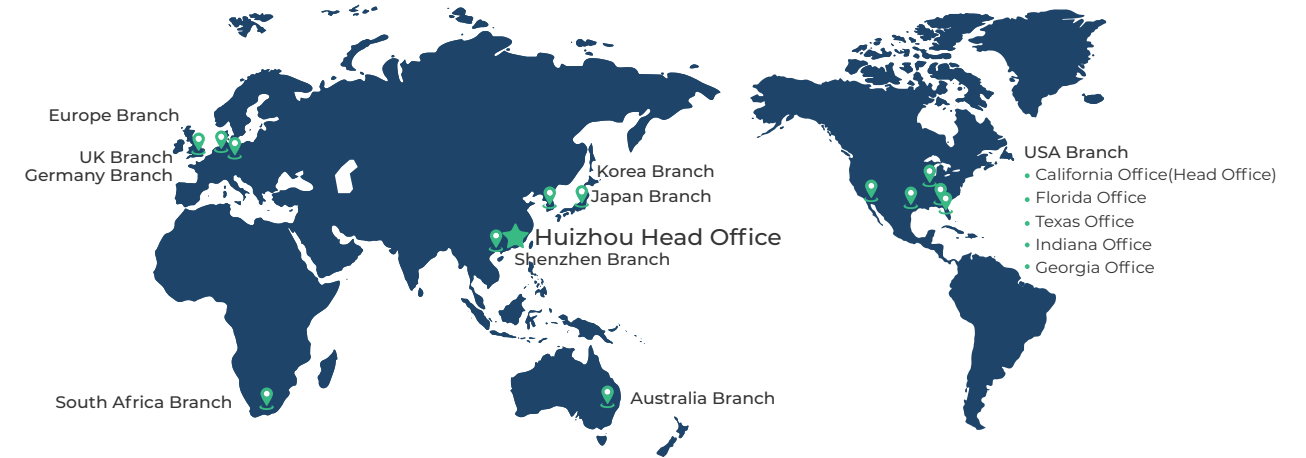
As a result of these investments, ROYPOW is capable of "end-to-end" integrated delivery, making our products out-perform the industry norms.

- Fully Automatic Production Lines
- BMS, PCS, EMS All Designed in House
- All-round Testing
- Advanced MES System

Global Sales and Service Network

- 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.

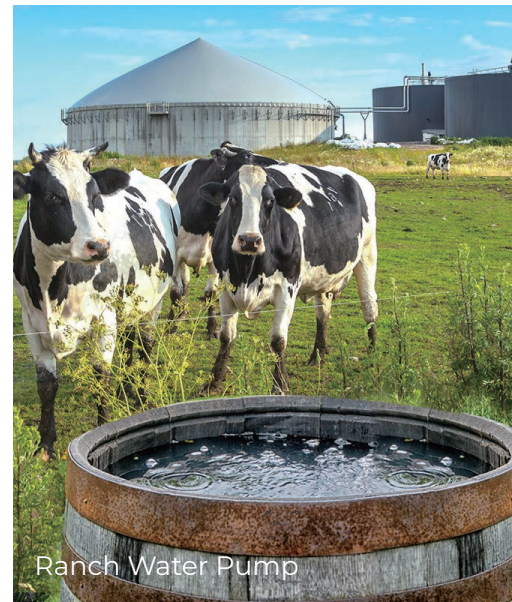
With years of dedication to new energy solutions, we are proud to offer customers professional solutions for:

- Low-speed Vehicle Batteries
- Battery Systems for Off-highway Applications
- Residential Energy Storage Systems
- Mobile Energy Storage Systems
- Industrial Batteries
- Battery Systems for Emerging Applications
- 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.



ROYPOW Solution

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

☹ Diesel Generator Solution

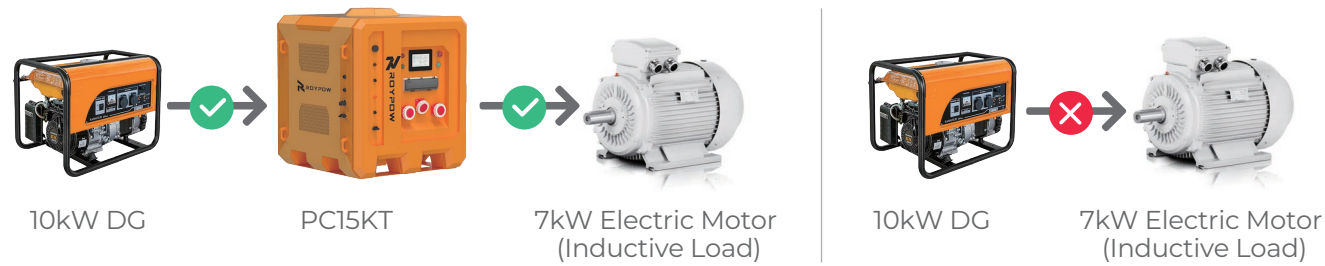
- High fuel consumption and costs
- Remote monitoring not allowed for most DGs
- Frequent maintenance and oil changes required
- Air pollution and excessive noise

☹ 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



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.

Generator Connection with Automatic Charging

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



Rugged and Reliable

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.



Features



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 extinguishing system.



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

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



IP54 Ingress Rating

Can be placed in outdoor areas



Plug and Play

Pre-installed, no additional complex installation required

Up to **6** Units in Parallel

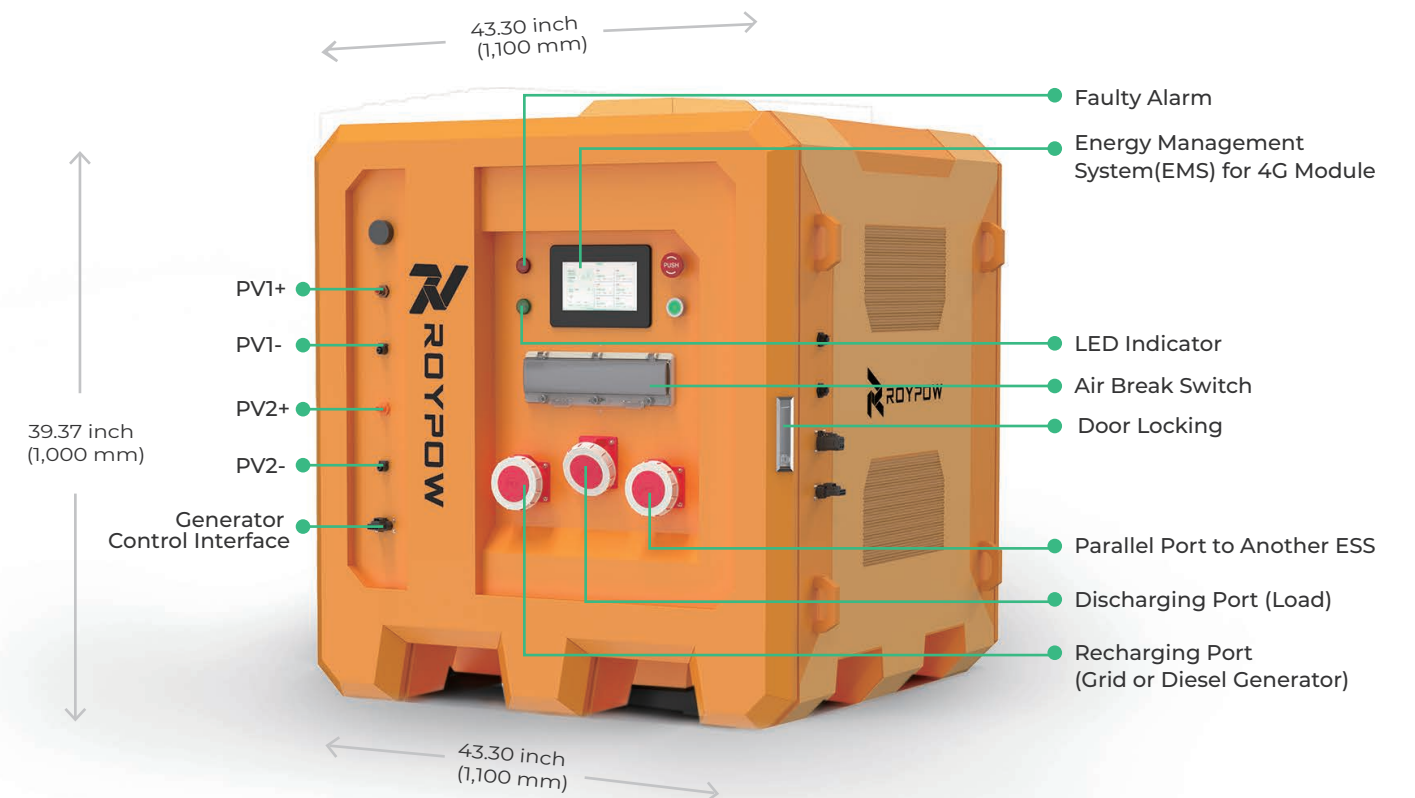
Scalable up to **90kW / 198kWh**. Supports battery-only parallel connection.

Support **PV** Charging

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



PowerCompact Series PC15KT System Composition



1477.1 lbs
670KG

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 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
Dimensions (LxWxH)	1100 x 1100 x 1000 mm
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