

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: December 19, 2025, PowerGo Series - Mobile Hybrid Energy Storage System



ROYPOW Technology Co., Ltd.

Tel: +86 (0)752-327 9099
Email: sales@roypow.com
service@roypow.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
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 A, Kennesaw, GA 30152, USA

ROYPOW Technology UK Limited

Tel: 079 3818 1019 / 07425566908
Email: sales.uk@roypow.com
Add: Unit F, Argent Court, Hook Rise South, Surbiton, Surrey KT6 7NL

ROYPOW Australia Technology Pty Ltd

Email: sales@roypowtech.com.au
Tel: +61 29185 0814
Web: www.roypowtech.com.au
Add: Unit 9/148 James Ruse Dr, Parramatta 2150, NSW, Australia

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 Technology GmbH

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

ROYPOW株式会社

Tel: +81 090 7092 6969
Email: sales.jp@roypow.com
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 Battery Technology (Pty) Ltd

Email: sales.za@roypow.com
Tel: +27 10 900 5808
Add: 53 Lake Rd, Longmeadow Business Estate, Edenvale, 1609, South Africa

PT ROYPOW HIGTECH INDONESIA

Add: Horizon Industrial Park Factory, Type A, Lot 05, Sungai Pelunggut Sub-district, Sagulung District, Batam City, Riau Islands Province, Indonesia



Energy-Efficient & Cost-Effective C&I ESS

PowerGo Series PC15KT

Mobile Hybrid Energy Storage System

Unlock Great Power & Profit for Your Projects



sales@roypow.com
www.roypow.com



Scan it!

ROPOW

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 Complete Power Solutions for Off-Road Vehicles, Marine Power System, Jobsite ESS, Vehicle-Mounted ESS, and Electric Retrofit Solutions
- Self-development of power electronics technologies, including PCS, BMS, and EMS, as well as motor and controller motion control algorithms



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

Quality Control Certificates:

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

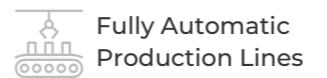


Product Certifications:

UL 1973, UL 9540A, UL 9540, UL 2580, UL 2271, UL 1741			FCC, IEC/EN 61000-6, BS EN IEC 61000-6
IEEE 1547			IEC 60730, ISO 13849-1
IEC 62619			UN 38.3
EN 62477, EN 62040, (EU) 2023/1542, EN 62109-1, EN 62109-2			RoHS Directive 2011/65/EU & (EU) 2015/863

R&D and Manufacturing Highlights

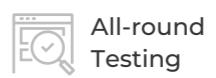
As a result of these investments, ROPOW is capable of "end-to-end" integrated delivery, making our products out-perform the industry norms.



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

ROPOW 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:

- Complete Power Solutions for Off-Road Vehicles
- Vehicle-Mounted ESS
- Marine Power System
- Electric Retrofit Solutions
- Jobsite ESS
- Residential and C&I ESS

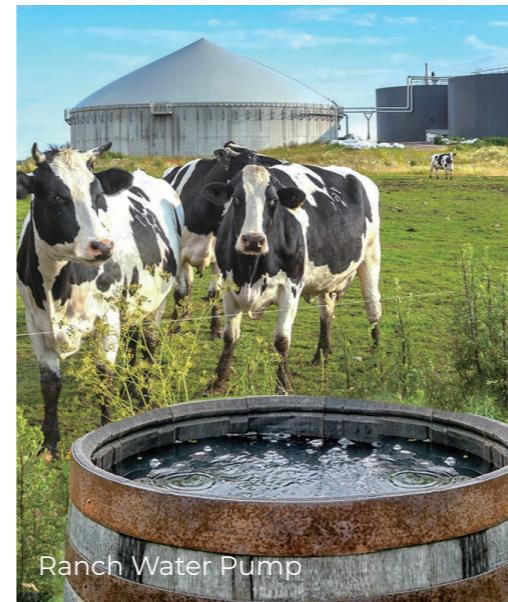


ROYPOW Mobile Hybrid ESS Solution

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.



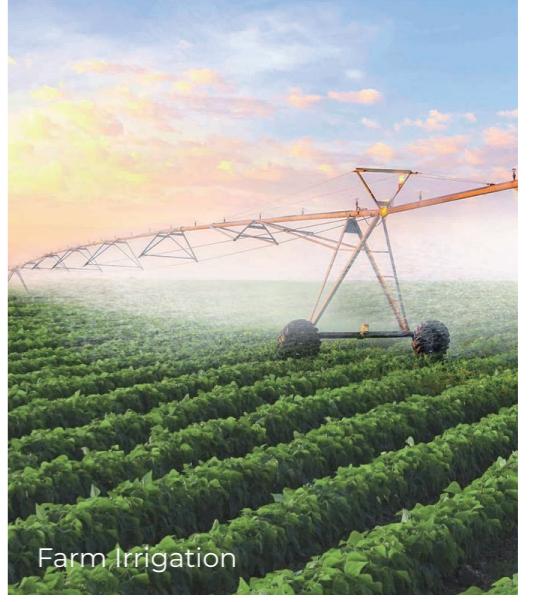
Construction



Ranch Water Pump



Emergency Power



Farm Irrigation



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 22kW 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.

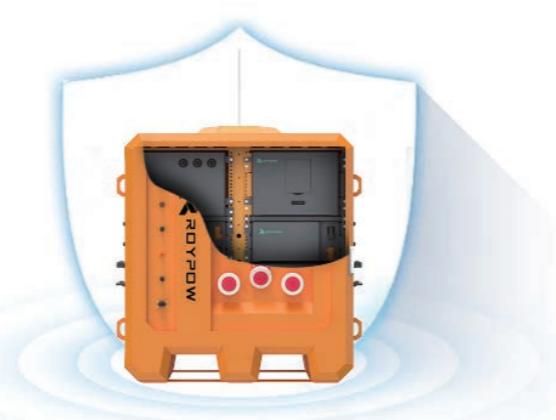
Generator Connection with Automatic Charging

When undercharged, the system automatically starts 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



IP54 Ingress Rating

Can be placed in outdoor areas



Intelligent Management

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



Plug and Play

Pre-installed, no additional complex installation required



Pre-heating Function

Ensure optimal battery performance and extend battery lifespan in low-temperature environments.

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.



PowerGo Series PC15KT System Composition



Specifications

Model

PC15KT-E/A

AC Output (Discharging)

Rated Power (kW)	15 (90 / 6 in Parallel)
Rated Voltage / Frequency	380 V / 400 V 50 / 60 Hz
Rated Current (A)	21.8
Single-Phase	220V / 230V AC, Rate power 5kW; Max 7.5kW @1 hour
Rated Bypass Power (kVA)	22.5
AC Connection	3W+N+PE
Overload Capacity	120% @10min / 22W @10S

AC Input (Charging)

Rated Power (kW)	15
Rated Voltage / Current	380 V / 400 V 22.5 A
Rated Input Apparent Power (kVA)	22.5
Single Phase / Current	220 V / 230 V 22 A (Optional), Single phase to three phases converter (optional accessory)
THDI	≤3%
AC Connection	3W+ N+PE

Battery

Battery Chemistry	LiFePO4
DoD	90%
Rated Capacity (kWh)	33 (Max. 198 / 6 in Parallel)
Voltage (VDC)	550 ~ 950

DC Input (PV)

Max. Power (kW)	30
MPPT Voltage Range	160 ~ 950 V
Max. Input Current (A)	30 / 30
Number of MPPT	2
Number of String per MPPT	1
Start-up Voltage (V)	180

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 (C / F)	-20 ~ 50 (-4 ~ 122)
Noise Emission (dB)	≤ 45
Cooling	Natural Cooling
Altitude (m)	4000 (>2000 Derating)
Weight (kg / lbs)	670 / 1477
Dimensions (LxWxH) (mm / inch)	1040 x 1092 x 1157 / 40.94 x 42.99 x 45.55
AC Connection	CEE Standard Industrial Sockets
Standard Compliance	EN IEC 61000-6-2/4, EN IEC62109-1/2

Note: All data are based on ROPOW standard test procedures, actual performance may vary according to local conditions.

Cases

