

PC15KT

Mobile Energy Storage System



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



All-in-one

Mobile battery system, PCS, DC-DC converter, transformer, STS, liquid cooling system, fire extinguishing system, distribution system, and EMS.



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.



Intelligent Management

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



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.



Enhanced Reliability

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



Excellent Adaptability

Higher protection design and excellent heat dissipation technology enable it to operate stably in harsh environments. The compact spatial layout effectively reduces the footprint.



High Compatibility

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



From **15 kW / 30 kWh**
to **90 kW / 180 kWh**



Li-ion sales@roypow.com
www.roypow.com

Specifications

Model	PC15KT
AC Output (Discharging)	
Rated Power	15 kW (90 kW /6 in Parallel)
Rated Voltage / Frequency	220 / 230 VAC 50 / 60 Hz
Rated Current	34.8 A
Three-Phase	380 V / 400 V
Apparent Power	16.6 kVA
AC Connection	3W+ N
Peak Power (1S)	20000 VA
AC Input (Charging)	
Rated Power	15 kW
Rated Voltage / Frequency	380 V / 400 V 50 / 60 Hz
THDI	≤3%
AC Connection	3W+ N
Battery	
Battery Chemistry	LiFePO ₄
DoD	90%
Rated Capacity	30 kWh (Max. 180 kWh /6 in Parallel)
Voltage	550-950VDC
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)	≤350 KG
Dimensions (LxWxH)	1100 x 1100 x 1000 mm
Standard Compliance	EN50549, AS4777.2, VDE4105, G99, IEEE1547, NB/T 32004, IEC62109, NB/T 32004, UL1741, IEC61000, NB/T 32004

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.