

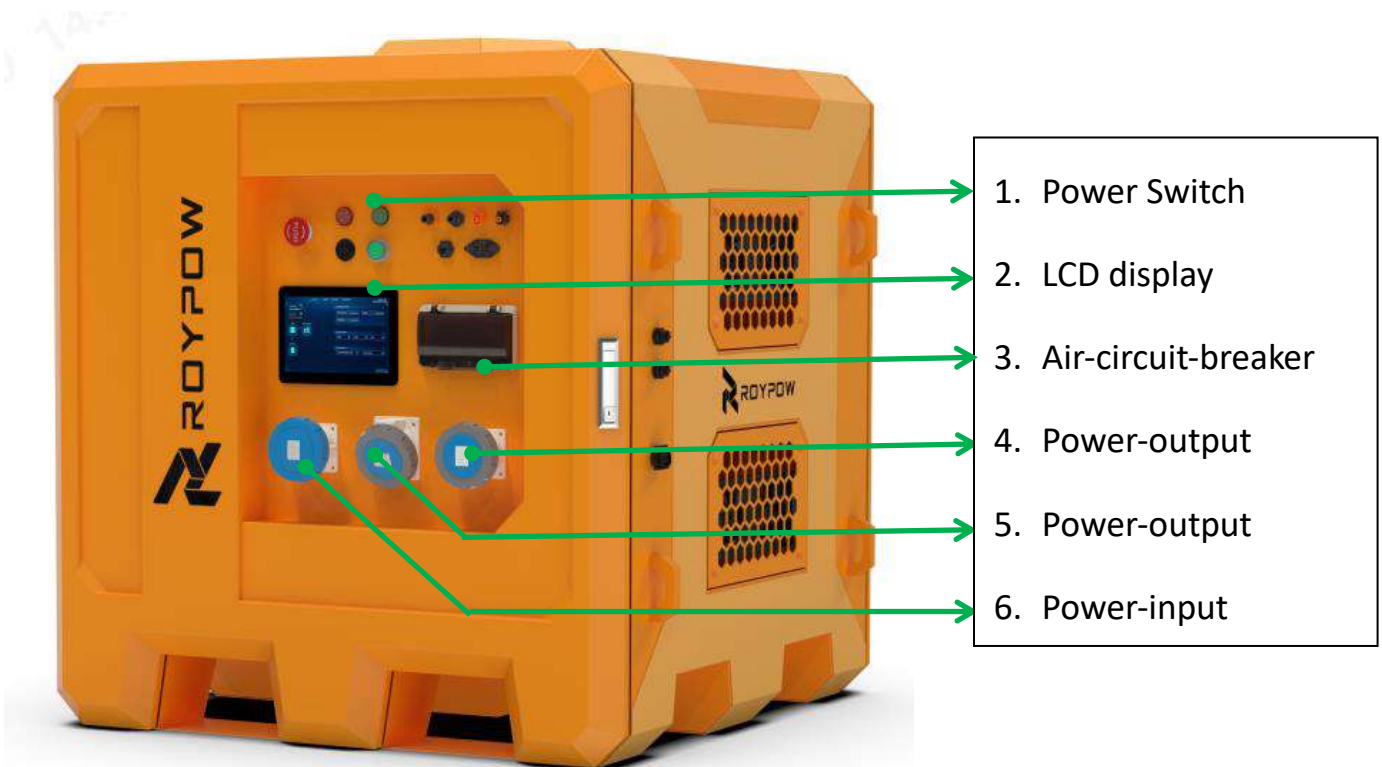
Mobile Energy Storage PC15KT-E/A

Specifications

Product Model Model	PC15KT-E/A
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Approval column		
system Designed by	Certainly Audit Checked by	approve Approved by

Product photos:



1、 Power key : used for user power-on key, Power off button, Operation indicator light, Fault indicator light .

2、 L CD display : Display output power, Input power, Device status, Battery power, PV power .

3、 Air switch: used to disconnect or connect the power supply.

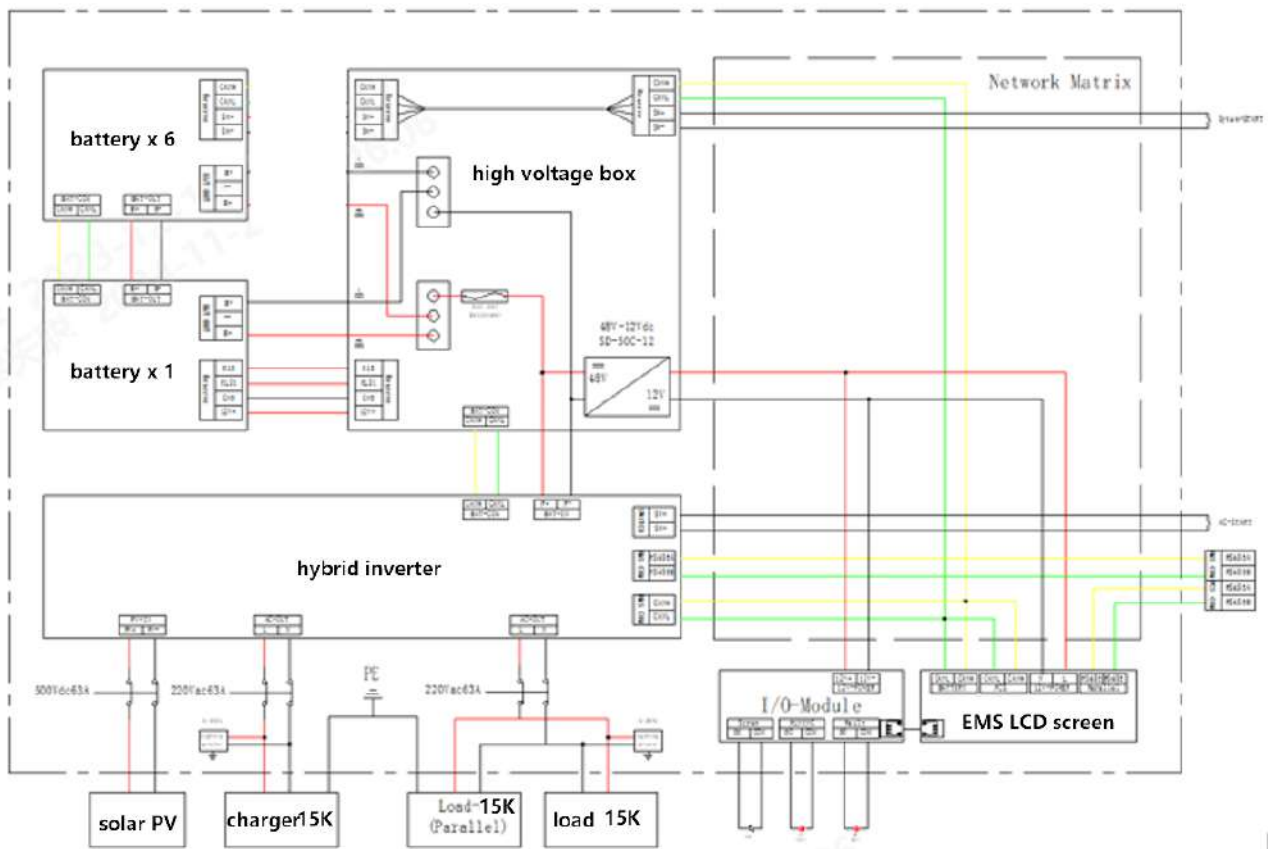
4、 Output: Power output port, For external load equipment , supports three-phase/single-phase output.

5、 Output: Power output port, For external load equipment , supports three-phase/single-phase output.

6、 Input: Power input port, Can be used to charge the device PC15KT .

1. Overview

PC15KT-E/A mobile energy storage equipment, supports three-phase 400V/380V output up to 15KW, supports single-phase 230V/220V AC output, built-in 30kwh high - safety lithium iron phosphate high-voltage battery pack, IP 54 natural cooling design, supports three-phase 400V and single -phase 230V charging, Support PV solar panel charging, with over-temperature, over-current, and over-voltage protection functions. Support the control of diesel generator/gasoline generator start and stop through dry contacts, Internally integrated 4G remote communication function, Users can remotely monitor the device in real time through APP or PC platform. It also has GPS positioning and tracking function. The platform integrates electronic fences. It is particularly suitable for mobile energy storage rental/construction sites/outdoor activities.



System topology diagram

2. Input and output port configuration

AC output interface- female	 A red female AC output connector with a white protective cap. The cap is shown partially open, revealing the internal female terminals.
A C output interface-male (Socket terminal)	 A red male AC output connector with a white protective cap. The cap is shown partially open, revealing the internal male terminals.

3. Technical parameter

model		PC15KT-E/A
Output Characteristics	Rated Power	1 5KW (maximum 90KW , 6 units in parallel)
	Rated output voltage (V)	400V AC or 2 30VAC
	Output Current	3 x 21.8 A
	Apparent power (V)	22500 kVA
	AC grid frequency	45Hz ~ 65Hz

	(Hz)	
	Three-phase four-wire	3 W + N
	Overload capacity	120% @10min / 200% @10S
System input characteristics	Input rated power	15KW
	Input rated voltage	380 V / 400 V 22.5A (three phase)
	Input rated voltage	220V / 230V 22A (single phase)
	THDI	≤3%
	Three-phase four-wire	3W + N
Battery Characteristics	Battery Type	Lithium iron phosphate/LFP4
	Do D	90%
	Battery capacity	30 kWh (Maximum 180 kWh/6 units in parallel)
	Voltage	550-950VDC
Solar panels	Maximum Power	3 0KW
	M PPT quantity	twenty two
	Maximum input current	3 0A / 30A
	M PPT voltage range	160 – 950 VDC
	Starting voltage	180VDC
Additional Information	Protection level	IP 54
	Number of parallel	6 units
	Operating temperature	-20 °C ~ 50 °C
	Storage temperature	-40°C ~ +75°C
	Relative humidity	0 ~ 95% , no condensation
	altitude	4000 m, derated for altitudes above 4000 m
	Cooling method	Natural cooling
	communication	Supports 4G LTE
	size	1100 x 1100 x 1000 mm
	weight	450KG

4. Safety regulations and electromagnetic compatibility

NO.	project		Standard (or test condition)
1	Withstand voltage test	Input-Output	4250Vac/60s ≤100mA
2	Insulation resistance	Input - Ground	≥ 50MΩ@500Vdc
		Output - Ground	≥ 50MΩ@500Vdc
3	Leakage Current		< 3.5mA
4	Safety Standards		EN62477-1
5	Electromagnetic compatibility		EN IEC 61851-21-2:2021
6	other		CE (Inverter)

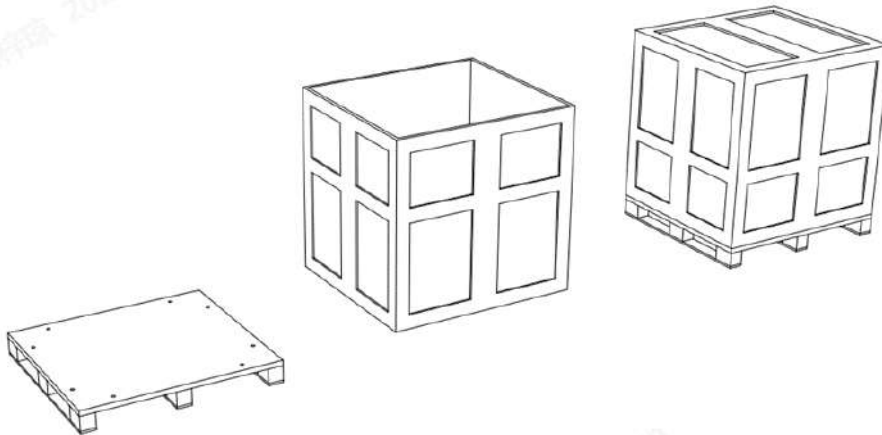
5. LED display

NO.	project	state
1	Running status display	When the device is working normally, The indicator light will light up
2	Fault display	When the device fails, The indicator light will light up

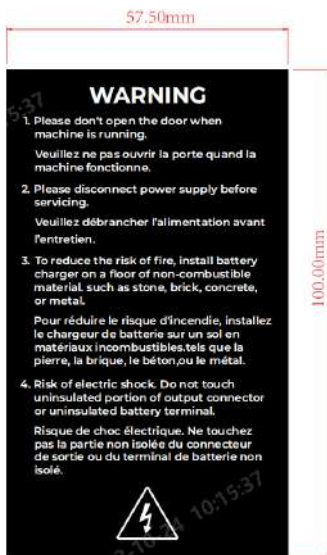
6. Packaging and transportation

6.1 Packaging

The package contains the product name, model, manufacturer name, safety standards, serial number, instruction manual and packing list.



6.2 Tags



Model: PC15KT
 Input: 400VAC 3P+PE.50Hz MAX.21A
 Output:30-100VDC 200A MAX
 Output Power:20kW MAX
 Protective Class: IP54
 Weight:450Kg
 Serial Number: CHA30100200 H01D10090001
 Manufacturer: RoyPow Technology Co.,Ltd..

6.3 Serial Number Rules

CHA30100200 H01 D1009 0001	
① ② ③ ④	
①	CHA30100200: represents the machine model
②	H01: represents production line No. 1
③	D1009: Represents the production date
④	0001: represents the serial number

6.4 Storage method

When the product is not in use, it should be placed in the packaging box. The warehouse

temperature limit should be $-40\sim 70^{\circ}\text{C}$, the normal temperature should be $-20\sim 50^{\circ}\text{C}$, the relative humidity should be $5\sim 95\%$, and there should be no harmful gases, flammables, explosives, corrosive chemicals, strong mechanical vibrations, shocks and magnetic fields in the warehouse. The packaging box should be placed at least 20cm above the ground and 50cm away from the wall, heat source, and vents. The charger can be stored under this storage condition for two years, and it must be retested after two years. The charger must be powered on once every three months, and the power-on time should be no less than 0.5 hours.
