Mobile Energy Storage System

15 kVA - 15 kW - 33 kWh

PT15KT-E/A

Mobile energy storage

The PC15KT mobile energy storage system includes EMS smart screen, inverter, battery, DC/DC, IO module and related wiring harness, circuit breaker, lightning protection device, indicator light, operation switch, etc.

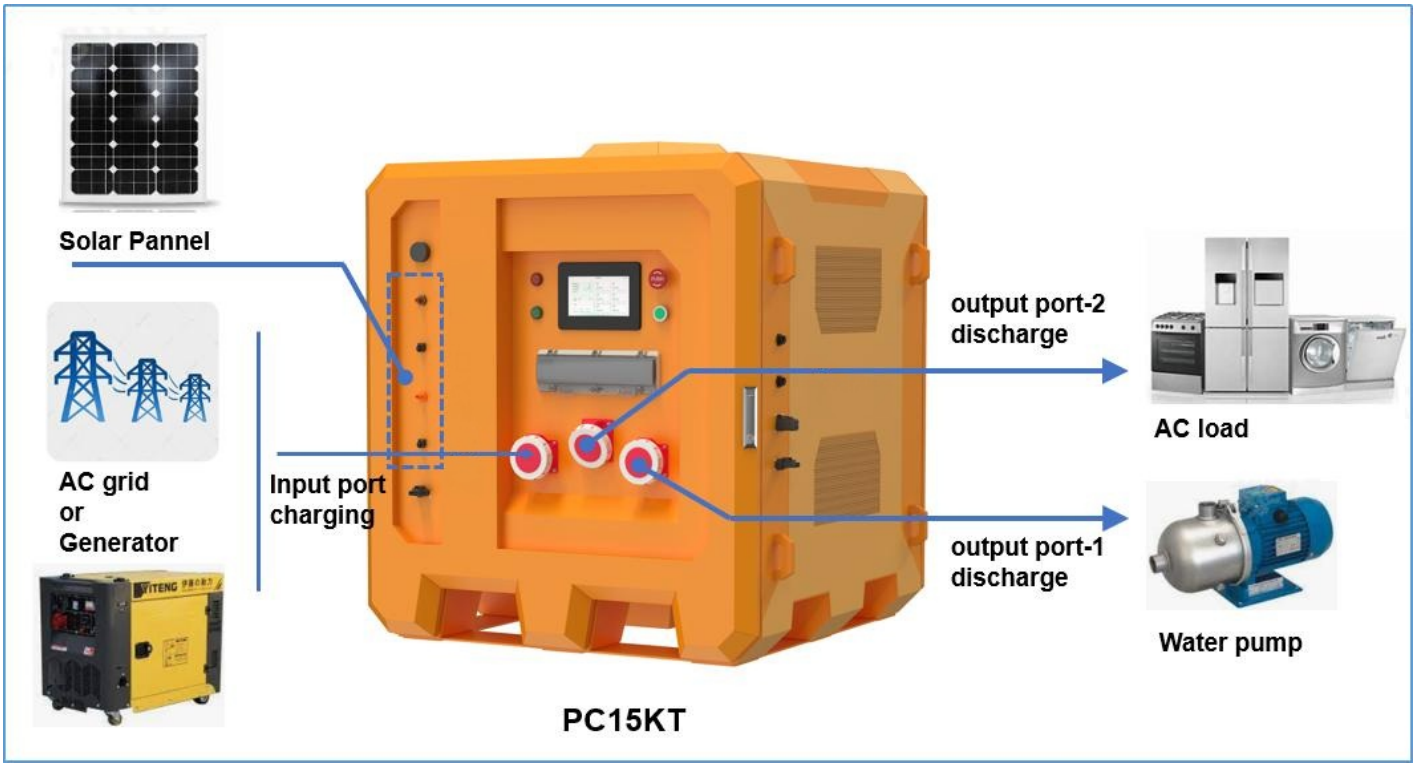
The mobile energy storage system can obtain energy from AC power supply, generator, or external solar photovoltaic panel, store the generated electricity in lithium battery, and then supply the energy to external load.

EMS smart screen: data display of control equipment, energy transmission management.
Hybrid inverter: AC/DC energy conversion device of the whole system.

Mains electricity: connected at the AC input end, it can supply power to the load and charge the battery at the same time. If the mains is not connected, the system can also operate normally. At this time, the load power supply is provided by the battery and photovoltaic module. If the photovoltaic panel is not connected, then only the battery can supply power to the load.

Battery: The role of the battery is to ensure the normal power consumption of the system load when the solar energy is insufficient, there is no mains or generator.

IO module: Provides operation and fault indicator light control signals, feedbacks emergency stop signals to EMS, and supports the control of fuel generator on and off.



System technical parameters

Model		PC15KT-E/A
Output characteristics	Rated power	15KW (maximum 90KW , 6 units in parallel)
	Rated output voltage (V)	400VAC or 230VAC
	Output current	32A
	Apparent power (V)	22500 VA
	AC grid frequency (Hz)	50Hz/60Hz
	Three-phase four-wire	3W+N
	Overload capacity	120% @10min / 200% @10S
System input characteristics	Input rated power	15KW
	Input rated voltage	380V /400V 22.5A (three phase)
	Input rated voltage	220V/230V 22A (single phase, require an additional convertor)
	THDI	≤3%
	Three-phase four-wire	3W+N
Battery characteristics	Battery type	Lithium iron phosphate/LFP4
	DoD	90%
	Battery capacity	33 kWh (Maximum 132kWh/4units in battery parallel)
	Voltage	550-950VDC
Solar panels	Maximum power	30KW
	MPPT quantity	2 - 2
	Maximum input current	30A /30A
	MPPT voltage range	160 – 950VDC
	Starting voltage	180VDC
Additional information	Protection level	IP54
	Number of parallel	6 units
	Operating temperature	-20 ℃～50 ℃
	Storage temperature	-40℃～+75℃
	Relative humidity	0～95% , no condensation
	Altitude	4000m, derated for altitudes above 4000m
	Cooling method	Natural cooling
	communication	Supports 4G LTE
	Size	1040 x 1092 x 1157mm
	Weight	670kg

Mobile energy storage system parallel (support Max 6 units parallel)

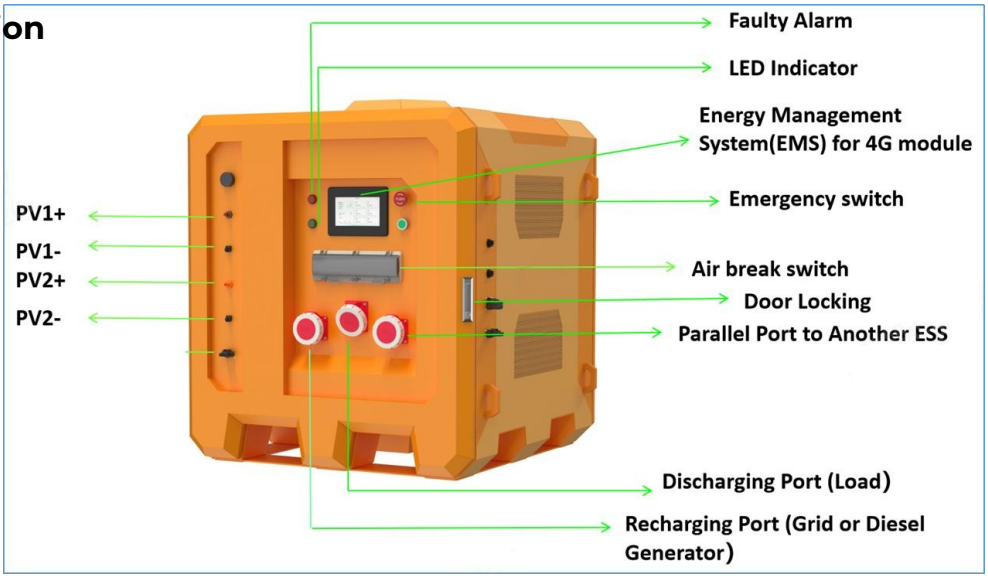
The system is configured using the dedicated parallel wiring harness show.
Any OUTPUT outlet of the remaining two systems can output 30000 VA rated power.

Attention: ⚠
After connecting cables to the system, ensure that the cables are correctly connected before powering on the system.

2 x PC15KT parallel power strip

Load requirements

Hardware panel introduction



Hardware Switch image