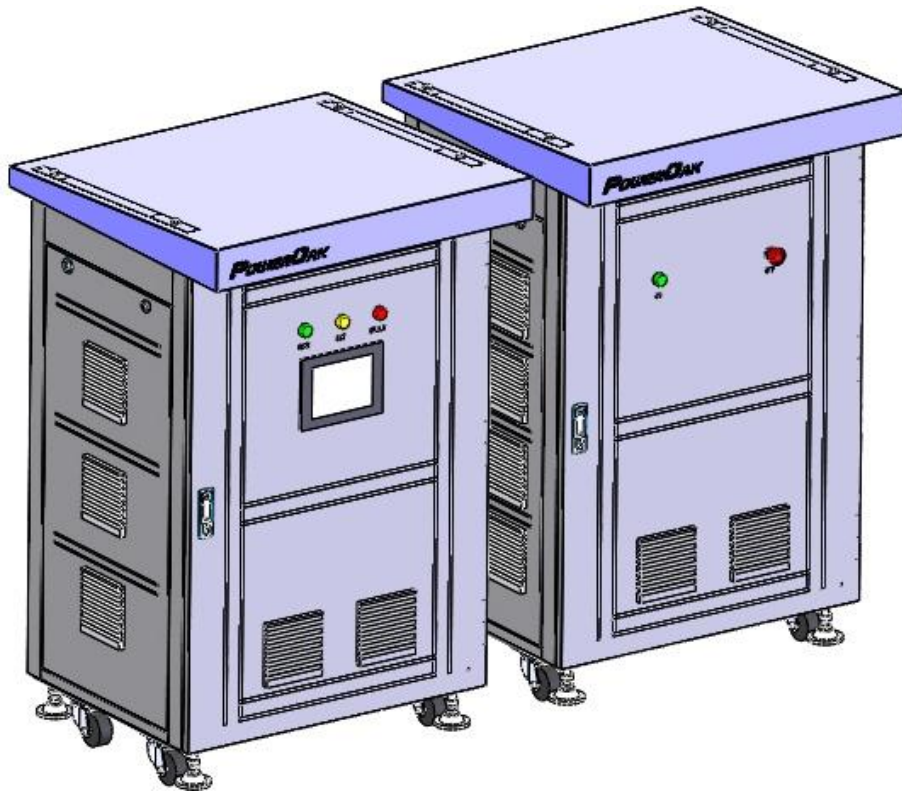
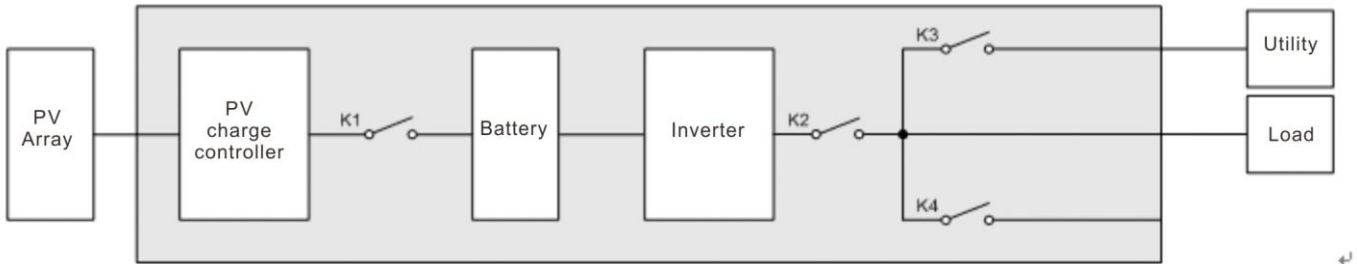


Distributed On-off Micro Grid System



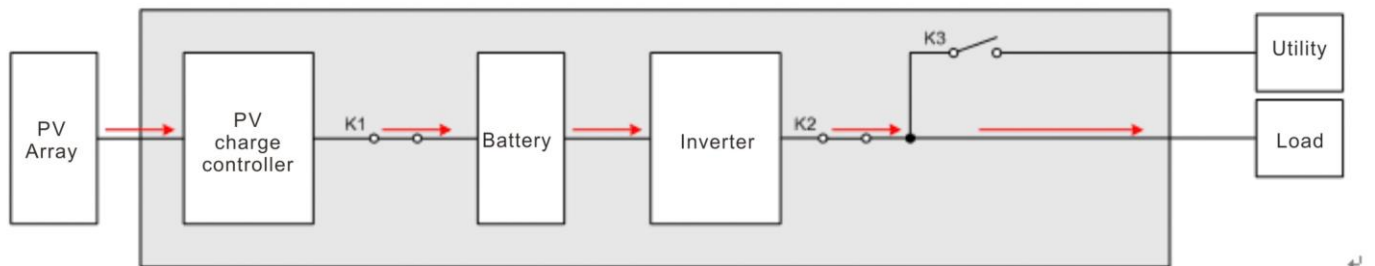
Topology Architecture



Function Brief

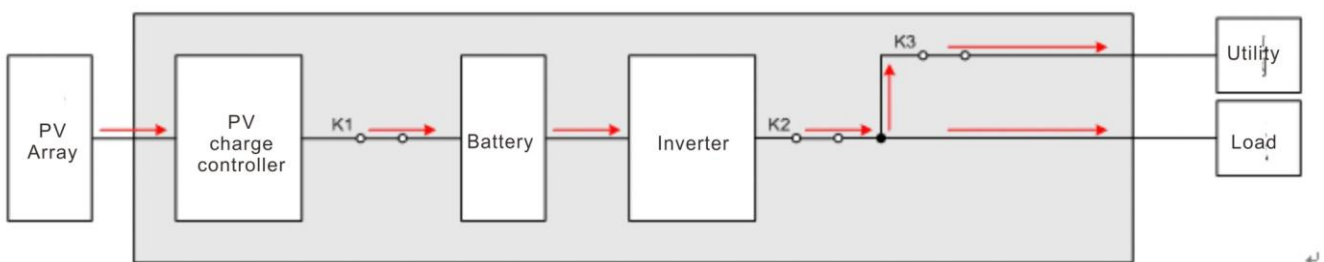
● Off Grid Mode

When the grid is disconnected or breakdown, our system will work in Off Grid mode. Under this mode, the unit will transfer solar power or electricity stored in the battery to AC, to power up all the loads.



● On Grid Mode

All loads' power will be provided by our system, the unit will use battery storage to power the loads under premise of normal capacity. If PV electricity is more than the loads need at the same time by charged fully, it will feedback excess electricity to the Grid.



If the battery is low and the sunshine is bad, the system will firstly assure battery capacity is sufficient and use the grid electricity to power loads.

Specification

Model Name		Distributed On-off Micro Grid System	Distributed On-off Micro Grid System
Continuous Rated Power		10KW	15KW
AC Parameters			
Rated Alternating Voltage	Grid Voltage	400VAC	
	Inverter Voltage	400VAC	
Rated AC Frequency		50Hz	
Total Harmonic Distortion	Grid Current	<4%	
	Inverter Voltage	2%	
On/off Grid Switching Time		< 20ms	
Maximum Inverter Efficiency		93.8%	
Referenced Certification Standard		CE, VDE 0126-1-1	
Output Wave		Pure Sine Wave	
DC Parameters			
Recommended Each line PV Input		4000W	4000W
PV Input		3 lines	4 lines
Each PV Line Panels Start-up Maximum Voltage		145VDC (under definite lowest temperature condition)	
MPPT Voltage Range		70~120VDC	
PV Maximum Output Current		240A	320A
Charger Maximum Efficiency		97.3%	
Battery Voltage	Rated Value	52VDC	
	Working Range	48~57VDC	
System Parameters			
Stored Capacity		≥30KWh	
External Communications		RS485 (RS232/USB/Internet Optional)	
Working Environment Temperature		0°C~45°C	
Working Environment Humidity		10%~90%	
Altitude		<2000m	
IP Grade		IP54	
Dimension	Battery Box	1130mm×800mm×600mm	
	Inverter Box	1130mm×800mm×600mm	
Weight	Battery Box	240kg	
	Inverter Box	210kg	