



Single Phase All-in-one RESS

Vertical Stack

10KWh-40KWh

Remark: 2 Modules System Diagram,
Max supports 8 modules in Parallel

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Single Phase All-in-one RESS

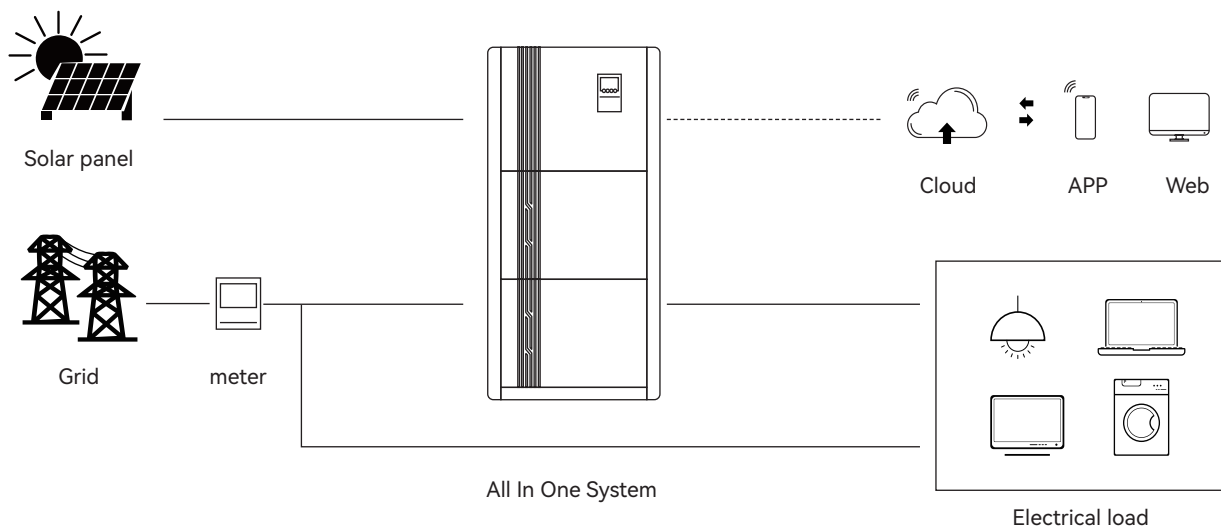
The all-in-one system adopts integrated design, integrated installation, protection level up to IP65, mainly used for household photovoltaic system. It integrates a hybrid inverter and LFP battery pack. The battery pack has a modular, expandable design, enabling flexible power configuration, and the hybrid inverter power supports 5kW. The product supports power grid, photovoltaic and battery access at the same time, and has the function of off-grid operation. The system has the advantages of high energy density, long cycle life and high compatibility.

-  Easy installation
-  LFP cell & system safety design
-  Real-time monitoring and control
-  High energy density, Excellent service life & Wide operation temperature range






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Max supports 8 modules in Parallel

Residential Energy Storage System



10KWh Single Phase All-in-one RESS

			
Name	Inverter	Battery Module	Battery base
Dimension:W*D*H (mm)	674*170*455	674*170*420	674*170*50
Weight (Kg)	25	55	2.25

PV Input	
PV Input	350-360
MPPT Voltage Operation Range (V)	80-550
Max Input Power (W)	6500
Max Input Voltage (V)	600
Max Input Current (A)	13
AC Input & Output (Grid)	
Max AC Input Current (A)	32-45.5
Rated Output Power (W)	5000
Max Output Power (VA)	5500
Rated Output Current (A)	21.7
Max Output Current (A)	23.9
Rated Output Voltage (V)	220/230/240
THDI	<3% (Nominal Power)
Emergency Output	
Max Output Power (VA)	4000-6000
Peak Output Power (VA)	6900-7200
Max Output Current (A)	16-26.1
Rated Output Voltage (V)	220/230/240 (+/-0.2%)
Output Frequency (Hz)	50/60 (+/-0.2%)
THDU	<2%
Transfer Time (ms)	<20
Efficiency	
Max Battery Discharge Efficiency	91%
Max Charge Efficiency (PV to battery) @ Full load	98.5%
System Parameter	
Dimensions	674*170*1335mm
Work Temperature Rang (°C)	-20~+60 (Derating @45°C)
Storage Temperature (°C)	-20~+45

Storage RH (%)	5%~90% (noncondensing)
Altitude (m)	<2000
IP	IP65
Dispaly	LCD/APP
Cooling Method	Natural cooling
Inverter Topology	Non-isolated
Installation	Floor-mount
Pack Specification	
Cell Type	LFP
Cell configuration	16S1P
Nominal Voltage (V)	51.2
Nominal Capacity (Ah)	100
Nominal Energy /Module (Wh)	5120
System Energy(Wh)	10240(2 Modules)
Charge Voltage (V)	57.6
Max Charging Current (A)	100
Max Discharging Current (A)	100
Charge Temperature Range (°C)	0~45
Discharge Temperature Range (°C)	-20~60
Storage Temperature Range (°C)	-20~45°C
Humidity (%)	5~95%RH
Cooling method	Natural cooling
Cycle Life (Time)	≥ 6000 (80% DOD, Remaining 80%)
Communication	CAN&RS485
Max Battery Parallel Number	8
Weight (Kg)	55