

# Vertical All-in-one ESS

## 1+X (Inverter+Batteries)



Structure		
	Parameters	
Model	VA MPI 5kW/5kWh	VA MPI 5kW/10kWh
Battery	1	2
Inverter	1	1
Base	1	1

Off-grid Inverter		
Rated Output Power	5 kW	
Maximum Peak Power	10KVA	
Power Factor	1	
Rated Output Voltage (Vac)	230Vac	120Vac
Frequency	50Hz	60Hz
Auto Switch Period	<15ms	
Maximum AC Charge Power	3150W	2100W
AC Charging Current Range	0~60A	0~40A
Input Voltage Range	90~280Vac	90~140Vac
Rated Output Power	5 kW	
Maximum Output Current	30A	50A
Output Frequency	50Hz	60Hz
Overload Current	35A	55A
Solar Charge Type	MPPT	
Maximum PV Array Power	5 kW	
PV Charging Current Range	0~80A	
MPPT Voltage Range	120~450V	
Battery		
Capacity	5.12kWh	10.24kWh
Battery Voltage/Range	46-57V	
Maximum Charging Power	5000W	
Maximum Charging Current	60A	
Maximum Discharging Power	5000W	
Maximum Discharging Current	100A	
Other Information		
Dimension Lx DxH	600*185*1100mm	600*185*1600mm
Weight	80kg	125kg
Operation Humidity	5%~85%	
Operating Temperature Range	-15°C ~ 55°C	
Nominal Operation Altitude	<2000m	
Ingress Protection Rating	IP20	
Noise	<60dB	

## Features

### Safer Design

- Cobalt-Free Lithium Iron Phosphate Battery(LFP) with safety, longer lifespan, high power & energy density, light weight, intelligent BMS with providing complete protection.



LFP Cell



Built-In BMS

### All-In-One Design

- Integrating with off-grid inverter, battery bank built in BMS to avoid communication compatibility problem.



Integrated Inverter



6000+ Cycles

### Convenient Design

- Modular flat design, floor-mounted, saving installation space, easy maintenance.

### Visible Interface Design

- LCD display show the information about the equipment with in real time for fast monitoring.

