

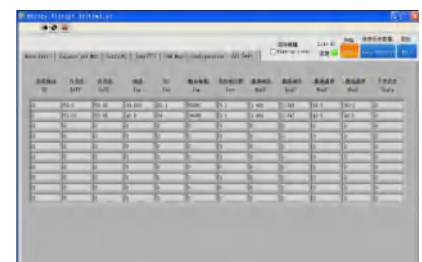
30.72KWH Battery Energy Storage System

ESS12048E600P4

30.72KWH Battery

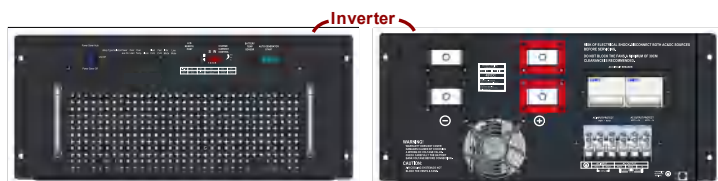
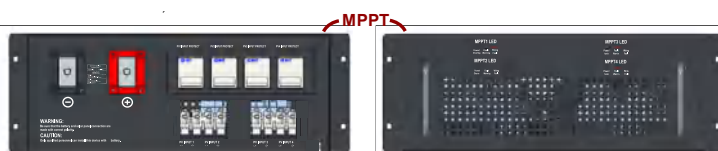
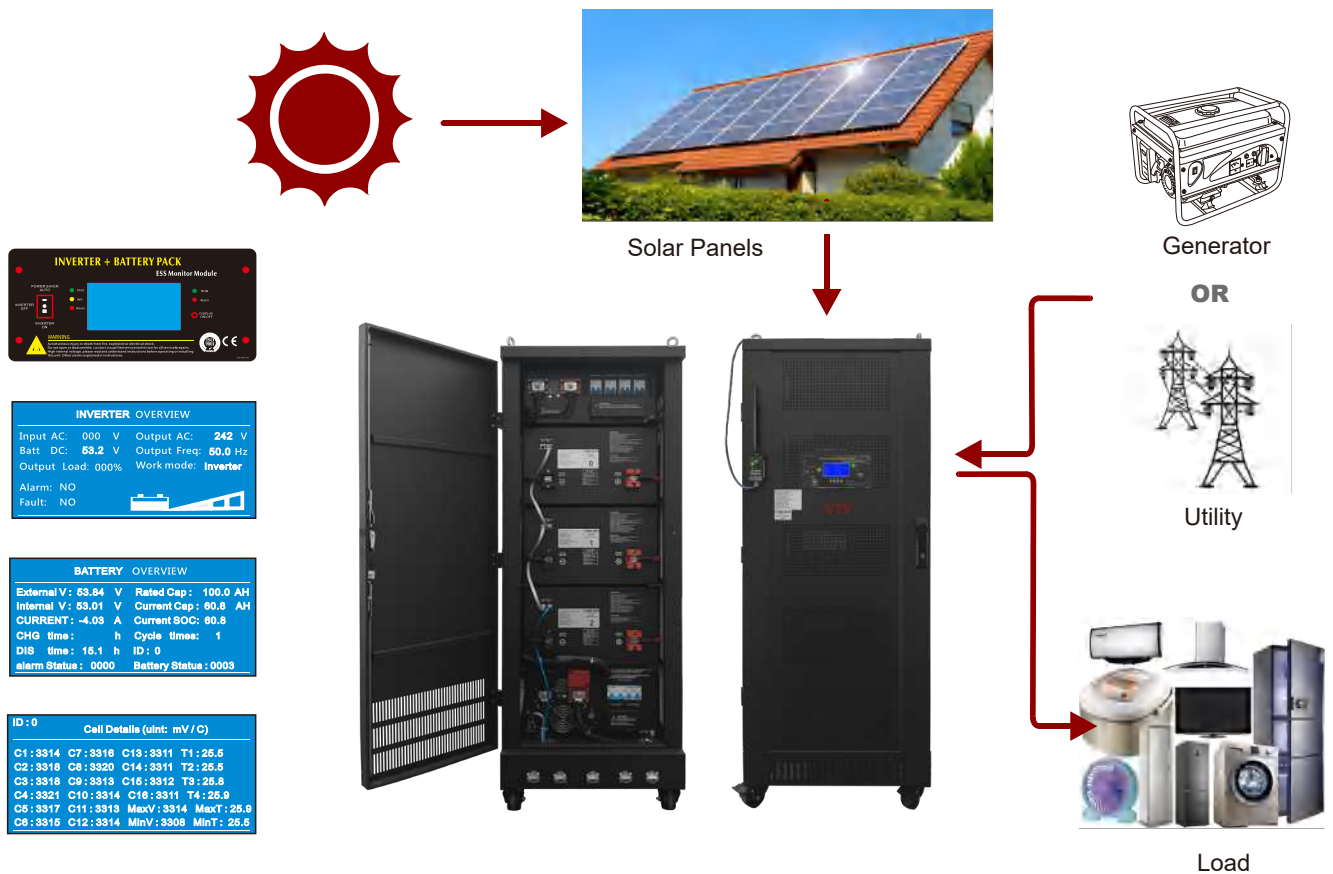
12 KW Inverter & AC Charger

240A MPPT Solar Charger



Product Application

Energy storage in power system including solar panels, inverter (for AC and DC conversion), and provide backup power for the main electrical backup lines. Household electricity demand different choice of different components.



WIFI MODULE

Real-time viewing



Loads Power Source

Day-time(battery priority mode):

PV power > loads power: PV → MPPT → inverter → loads

PV power = loads power: PV → MPPT → battery

PV power < loads power: PV → MPPT → inverter → loads

Battery

Night-time(battery priority mode):

Battery Full: battery → inverter → loads

Battery Low alarm: City power → inverter → loads

OR battery charging

City power → inverter → loads

BASIC Specification

Battery		Description
Normal specification		
1	Rated Voltage	51.2V
2	Rated Capacity	600Ah
3	Rated Energy	30.72KWH
4	Battery Configuration	10.24KWH(16S2P) *3PCS
5	Battery Cell	3.2V100AH 96PCS
Standard Charge		
1	Operation temperature range @charging	0~45°C
2	Rated charge voltage	55.2±0.4V
3	Max charge voltage	56.8±0.4V
4	Overcharge protection	58.4±0.4V
5	Allowed MAX charge current(Total)	330A withstand 30s (every pack 55A)
6	Peak charge current(Total)	360A withstand 5s (every pack 60A)
7	Rated charge current(Total)	300A (every pack 100A)
8	Recommend charge current(Total)	<300A
Standard discharge		
1	Operation temperature range @discharging	-20~60°C
2	Output Voltage Range	40~56Vdc
3	Recommend Working Range	46~54Vdc
4	Discharge Cut-off voltage	40V
5	Allowed MAX discharge current(Total)	660A withstand 30s (every pack 110A)
6	Peak discharge current(Total)	720A withstand 5s (every pack 120A)
7	Rated discharge current(Total)	600A (every pack 200A)
8	Recommend discharge current(Total)	<600A

BASIC Specification

Communication				
1	RS485		For LCD remote	
2	CAN		PC control and monitor	
Inverter (built-in)			Description	
Normal specification				
1	Rated Power		12KW	
2	Output Waveform		Pure Sine Wave/Same as input (Bypass Mode)	
3	Output Voltage		240Vac(H-H)/120Vac(H-N) ±10% RMS	
4	Output Frequency		50 or 60± 0.3Hz (Inverter mode by sw4 setting)	
5	Typical Transfer Time		4-6ms typical,10ms(Max)	
6	THD		< 3%(Rated voltage full R load)	
7	AC Input Range		184-253Vac (UPS mode) or 140-270Vac (GEN mode)	
8	Customized AC Charger		Battery type selector position 9, special design for LFP, make the battery cycle life Maximization	
9	MAX AC Charge Current		100A	
10	Battery priority Function		Setting by SW5 on position 1 (inverter mode valid), AC automatic come in when battery voltage low alarm at 48Vdc or 50Vdc	
11	AC Bypass without charging		Battery type selector position 0	
MPPT (built-in)			Description	
Normal specification				
1	PV POWER		3.5KW*4	
2	PV Input Voltage		60-145Vdc	
3	MPPT Charging Voltage		56.0Vdc (Fast charging)/54Vdc (Float charging)	
4	MPPT Output Current		60A*4	
Model	Configuration			
ESS1204 8E600P4	MPPT	INVERTER	BATTERY	Energy
	240A(60A*4)	12KW	600AH(200AH*3)	30.72kwh
Mechanical Characteristics				
ESS1204 8E600P4	Dimension H*W*D	Shipping H*W*D	Weight(N.W.)	Weight(G.W.)
	1360*560*960mm	1540*700*1050mm	440KG	480KG