

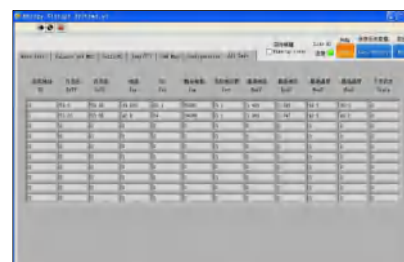
15.36KWH Battery Energy Storage System

ESS8048E300P3

15.36KWH Battery

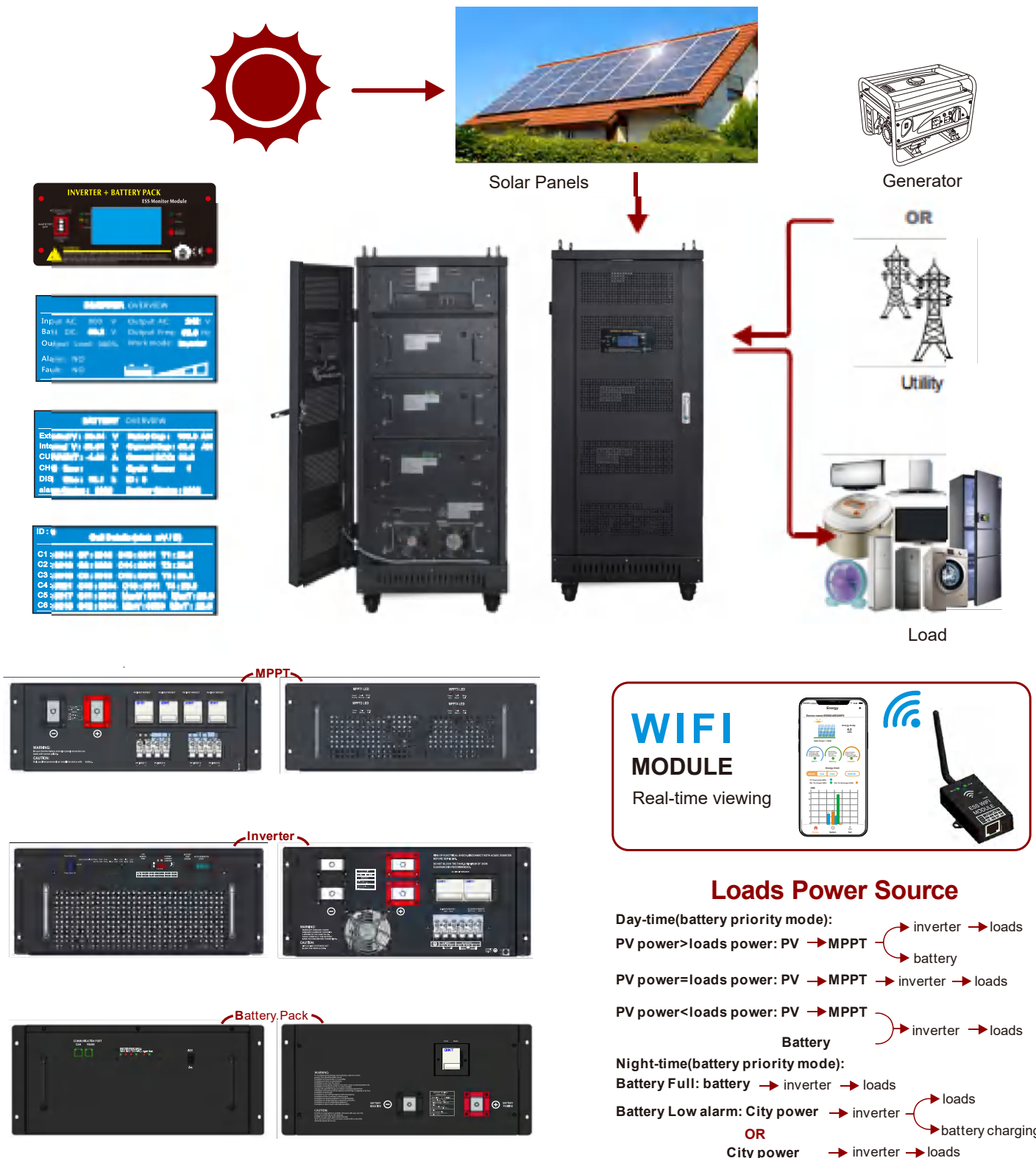
8 KW Inverter & AC Charger

150A 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.



● BASIC Specification

Battery		Description
Normal specification		
1	Rated Voltage	51.2V
2	Rated Capacity	300Ah
3	Rated Energy	15.36KWH
4	Battery Configuration	5.12KWH(16S1P) *3PCS
5	Battery Cell	3.2V100AH 48PCS
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)	165A withstand 30s (every pack 55A)
6	Peak charge current(Total)	180A withstand 5s (every pack 60A)
7	Rated charge current(Total)	150A (every pack 50A)
8	Recommend charge current(Total)	<150A
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)	330A withstand 30s (every pack 110A)
6	Peak discharge current(Total)	360A withstand 5s (every pack 120A)
7	Rated discharge current(Total)	300A (every pack 100A)
8	Recommend discharge current(Total)	<300A

BASIC Specification

Communication				
1	RS485		For LCD remote	
2	CAN		PC control and monitor	
Inverter (built-in)			Description	
Normal specification				
1	Rated Power		8KW	
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		80A	
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		3.0KW*3	
2	PV Input Voltage		60-145Vdc	
3	MPPT Charging Voltage		56.0Vdc (Fast charging)/54Vdc (Float charging)	
4	MPPT Output Current		50A*3	
Model	Configuration			
ESS8048 E300P3	MPPT	INVERTER	BATTERY	Energy
	150A(50A*3)	8KW	300AH(100AH*3)	15.36kwh
Mechanical Characteristics				
ESS8048 E300P3	Dimension H*W*D	Shipping H*W*D	Weight(N.W.)	Weight(G.W.)
	1360*560*785mm	1540*700*870mm	300KG	330KG