

Household Energy Storage System

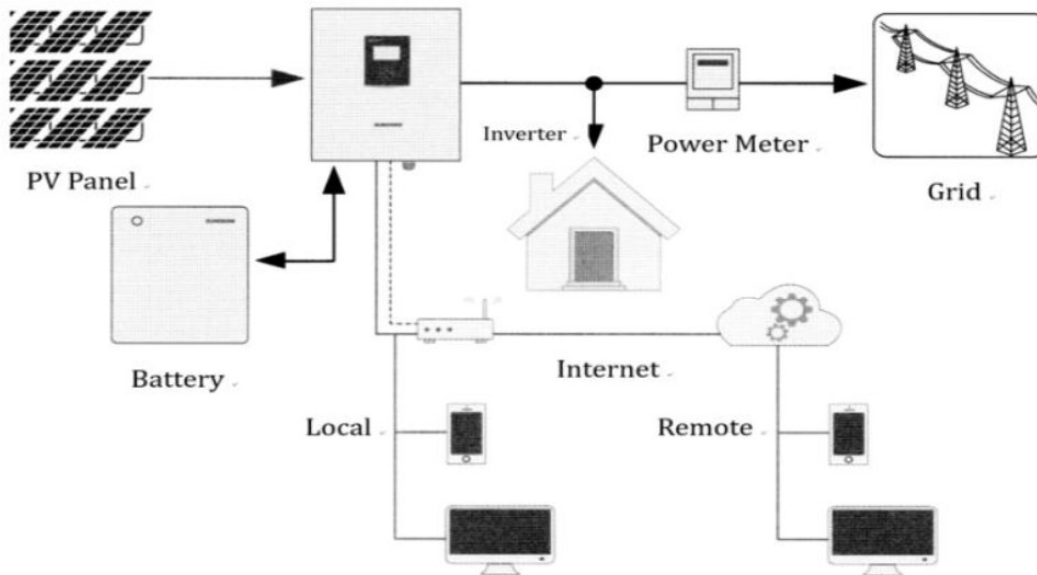


Specifications

1.Parameters

Nominal Voltage	51.2V
Nominal Capacity	120ah
Discharge Cut-Off	40V
Charge Cut-Off	58.4V
Charge Current	30A
Cont. Discharge	150A
Peak Discharge	300A (instantaneous)
Impedance	$\leq 200\text{m}\Omega$
Charge Temperature	0°C - 55°C
Discharge Temperature	-20°C - 65°C
Charge Method	CC/CV
Life Cycle	>6000Times
Size	450*260*530mm(Customized)
Weight	68KG
Communication	RS485

System Architecture:



Built-in BMS

No.	Item	Test Item	Creterion
1	Voltage	Charging Voltage	DC:54.8V CC/CV
		Balance voltage for single cell	3.50±0.025V
2	Current	Balance voltage for single cell	35±5mA
		Current consumption	≤50μA
		Maximal continuous charging current	50A
		Rated continuous discharging current	150A(Peak 300A)
3	Over charge Protection	Over charge detection voltage for single cell	3.65V±0.025V
		Over charge detection delay time	0.7S—1.3S
		Over charge release voltage for single cell	3.550±0.05V
4	Over discharge Protection	Over discharge detection voltage for single cell	2.50V±0.07V
		Over discharge detection delay time	1.6±0.5S
		Over discharge release voltage for single cell	3.00±0.75V
5	Over current Protection	Over current detection current	500±50A

		Over current detection delay time	1.6±0.5S
		Release condition	Cut load
6	Short Protection	Detection condition	Exterior short circuit
		Detection delay time	230uS—500uS
		Release condition	Cut load
7	Communication	Communicate	RS485
8	Resistance	Protection circuitry (MOSFET)	≤60mΩ
9	Temperature	Operating Temperature Range	-40~+85°C
		Storage Temperature Range	-40~+125°C

