

All-In-One Household Solar Energy Storage System **ESS Series**

AC Output:
3000W to 5000W

Battery Capacity:
3072Wh to 5120Wh



Flexible
investment



Solar/Grid Power/
Lithium battery
Three in One



Less Wiring
Work



Capable for
3-HP AC



Monitor real-time
data with WiFi



Extendable to 6
machines in parallel



TECHNICAL PARAMETERS



MODEL	ESS3600-3072	ESS3600-5120	ESS5600-5120
BATTERY PARAMETERS			
Battery Type	LiFePO4		
Nominal Battery Voltage (Vdc)	51.2		
Battery Capacity (WH)	3072	5120	
Maximum Charging Current/Output Current (A)	60	100	
Rated Charging/Discharging Power (W)	3000	3600	
Charging Temperature(°C)	0~55		
Discharging Temperature(°C)	-20~55		
OUTPUT			
USBA*4	18W Maximum (QC Output:5V/2.4A or 9V/2A or 12V/1.5A) *4		
TYPE-C*2	100W Maximum (PD Fast Charge Output:5V/3A or 9V/3A or 12V/3A or 15V/3A or 20V/5A) *2		
5525DC Power Port*2	12V2A*2		
AC Socket*4	2000W*4		
Total AC Socket Power	3600		5600
PHOTOVOLTAIC INPUT			
Maximum Input Power (W)	4000		6000
Maximum Input Voltage (Vdc)	500Vdc		
MPPT Working Voltage Range (Vdc)	120-450		
Starting Voltage (Vdc)	120		
Single MPPT Input Current (A)	11		20
Maximum Single MPPT Input Current (A)	13		22
Number of MPPT Input Channels	1		
Number of Strings per MPPT Channel	2		
AC OUTPUT (ON-GRID)			
Nominal Grid-tied Output Power (VA)	3000		5000
Maximum On-grid Output/Input Power (VA)	3600		5600
Rated Output Voltage (Vac)	230		
Output Voltage Range (Vac)	180-270		
Rated Operating Frequency (Hz)	50/60(±0.2%)		
Maximum On-grid Output/Input Current (A)	17		26
Switching Time (ms)	10		
Power Factor	0.8 leading to 0.8 lagging		
Total Harmonic Distortion	<3%		
AC OUTPUT (OFF-GRID)			
Nominal Off-grid Output Power (VA)	3000		5000
Maximum Off-grid Output Power (VA)	3600		5600
Maximum Off-grid Output Current (A)	17		26
Rated Output Voltage (Vac)	230(±2%)		
Output Voltage Range (Vac)	180-270		
Rated Operating Frequency (Hz)	50/60(±0.2%)		
Total Harmonic Distortion	<3%		
EFFICIENCY			
Maximum Efficiency	>95%		
Maximum DC-AC Conversion Efficiency	>92%		
MPPT Efficiency	99.9%		
GENERAL DATA			
Operating Temperature Range (°C)	-15~55		
Relative Humidity	5%-95%		
Noise (dB)	< 60		
Communication Method	Wi-Fi / GPRS		
Cooling Method	Fan cooling		
Product Dimensions (LxWxH) (mm)	450*290*520	520*320*550	
Product Packaging Dimensions (LxWxH) (mm)	550*390*620	620*420*650	
Net Weight (kg)	45	60	62
Gross Weight (kg)	55	70	72