




# Portable All-in-one ESS



  
Rugged Wheels and Telescopic Pull Handle Convenient Transport

  
Modular Design and Expandable Up to 10kWh


  
With UPS Function Switch Time  $\leq$  10ms

  
Wide PV Input Range 12~450V

**ESS**  
On & Off-Grid Hybrid all-in-one ESS

  
Max 16A Input Current to Better Match High Power Panel

  
Supporting AC Coupled & Easy Installation

  
Auto Control off-grid Zero-ground Voltage Close To Zero



## Si-Hybrid series



Model	SH4000S-5	
	110Vac	230Vac
<b>Battery Input</b>		
Cell Type	LiFePO4	
Battery Capacity (Wh)	5120	
Battery Input Nominal Voltage (V)	51.2	
Battery Input Voltage Range (V)	40~60	
Nominal Charging Current (A)	50	65
Nominal Discharging Current (A)	80	90
Max Discharging Current (A)	100	
Life Cycles (@25°C, 1C Discharge)	4000	
<b>AC Input</b>		
AC Charging Power (W)	2800	3600
Nominal Voltage (Vac)	110	230
Voltage Range (V)	90~140	180~270
Nominal Frequency (Hz)	60	50
Frequency Range (Hz)	55~65	45~55
Power Factor (@max. Charging Power)	>0.99	
<b>AC Output</b>		
Nominal AC Power (W)	3300	4000
Surge Power (W)	6600	8000
Nominal Grid Voltage (Vac)	100 / 110 / 120	220 / 230 / 240
Nominal Grid Frequency (Hz)	60	50
Max.AC Current (A)	34	21
Nominal AC Current (A)	30	17.5
THDv at Nominal Power (%)	<1.5	
<b>PV Input(HV) MC4</b>		
Max Solar Charging Input Power (W)	2500	3000
DC Input Voltage Range (V)	50~260	50~450
Max DC / PV Input Current (A)	16	
<b>DC Input(LV) XT60</b>		
Max Car Vharging Input Power (W)	120	
Max Solar Charging Input Power (W)	600	
DC Input Voltage Range (V)	10~50	
Max DC / PV Input Current (A)	16	
<b>DC Output</b>		
USB-TypeC1	45W, 5V, 9V, 12V, 15V:3A, 20V:2.25A	
USB-TypeC2	100W, 5V, 9V, 12V, 15V:3A, 20V:5A	
Car Port (x1)	132W, 13.2V, 10A	
<b>Efficiency</b>		
Battery to AC Max (%)	92	93
AC to Battery Max (%)	92	93
PV to AC Max (%)	96	97
PV to Battery Max (%)	94	95
Protection	AC output over current; AC output short circuit; AC charging over current; AC output over/under voltage; AC output over/under frequency; inverter over temperature; AC charging over/under voltage; Battery temperature high/low; Battery over/under voltage	
<b>General Data</b>		
Dimensions (W/H/D) (mm)	510*730*235; (Battery: 510*405*203; Inverter: 510*325*235;)	
Weight (Kg)	50 (Battery: 40kg; Inverter: 10kg)	
LCD (mm)	97*48	
Cooling Concept	Smart Fan Cooling	
Operation Temperature Range (°C)	0~45°C (Charging) , -20~55°C (Discharging)	
Operation Relative Humidity [RH(%)]	0-95%, Non Condensation	
Ingress Protection	IP54	
Noise (DB)	< 40	
Communication Interface	WiFi / Bluetooth (Optional)	