



# Off Grid Energy Storage All in one ESS Series

**MSDS** 

## Product highlights

- ! Built-in 100A MPPT charge controller
- ! Small space, big energy
- ! Can be connected to lithium battery communication via RS485
- ! Plug and play, easy to install
- ! Built-in lithium battery activation function
- ! Flexible and efficient

Model		ESS 3.5/2.56
<b>Inverter parameters</b>		
Rated output power		3KVA
Output voltage waveform		Pure Sine Wave
Output frequency		50Hz or 60Hz
Peak efficiency		94%
Maximum PV array power		4000W
Minimum solar voltage		60Vdc
Max. Solar Voltage (VOC)		500VDC
Maximum charging current		100A
AC input		230VAC, 50/60Hz, 23.5A, 1Φ
DC output		27VDC
Maximum charging current (AC)		80A, Default 30A
Maximum charging current (PV + AC)		100A
AC output		230VAC, 50/60Hz, 15.2A, 1Φ
<b>Battery data</b>		
Combination method		8S1P
Rated capacity		100Ah
Factory Voltage		25.6-26.4V
Voltage at end of Discharge		21.6V
Charging voltage		28.8V
Internal Impedance		≤20mΩ
Max Charging Current(Icm)		100A
Limited Charging Voltage(Ucl)		29.2V
Max Discharging current		100A
Discharge cutoff voltage		20V
<b>Environment</b>		
Charging temperature		0°C~55°C
Discharge temperature		-20°C~55°C
Storage temperature		-20°C~50°C
<b>Other</b>		
IP Level		IP20
Positive electrode material		Lithium iron phosphate
Housing material		Metal
Case style		Wall-mounted
Product Dimensions L*W*H(MM)		620*280*620
Net weight (kg)		38
<b>Communication</b>		
Agreement (optional)		RS485/RS232/WLAN Optional
<b>Certification</b>		
		UN38.3, MSDS