



AS-500W/1KWH-ESS

500W/1kWh Portable All-in-one ESS

 500 W Pure Sine Wave

 Fast PV/AC charging

 Bidirectional inverter

 Color Screen Display

 Single 314Ah LFP Cell

 8000 Cycle Life

Portable Energy Storage System 500W



Technical Parameters

Model	AS-500W/1KWH-ESS
AC Input	
Input Mode	Single-phase two-wire (L/N)
Output Voltage Waveform	Pure Sine Wave
Rated Voltage	230Vac
Voltage Range	90-280Vac $\pm 5V$
Frequency Range	45-65Hz
Power Factor	>0.95
AC Charging Power	500W MAX
AC Inlet	3-pin AC inlet (covered), male*1
PV Input	
Nominal Photovoltaic Voltage	30V
Voltage Range	10-55Vdc
Maximum Current	10A
Maximum Power (MPPT)	300W
Input Port	XT90E-M (with cover)*1
AC Output	
Output Mode	Single-phase two-wire
Rated Voltage	230Vac $\pm 5V$
Rated Frequency	50Hz $\pm 0.5\%$
Total Harmonic Distortion (THD)	$<3\%$ line / $<5\%$ non-linear
Power Factor	≥ 0.99
Full Load Power	500W
UPS Switching Time	$\leq 20ms$
Maximum Inverter Efficiency	88%
Output Port	Schuko (European standard) socket*2
DC Output (60W Max.)	
Maximum Output Power	18W
Round DC Port*2 Maximum Output Power	60W (12V*1A/2A/3A/4A/5A)
Battery	
Rated Voltage	3.2V
Voltage Range	2.9-3.65V
Typical Capacity	314Ah
Capacity	1004.8Wh
Maximum Charging Current	140A
Maximum Charging Power	500W
Protection Function	
Undervoltage/Overvoltage Protection	Yes
Short Circuit Protection	Yes
Over-temperature Protection	Yes
Environment	
Operating Temperature	$-10^{\circ}C \sim 50^{\circ}C$
Storage Temperature	$-15^{\circ}C \sim 60^{\circ}C$
Humidity	20%-85% RH without condensation
Altitude	$\leq 3000m$, $>3000m$ derate 1% per 100 m
Noise	$<40dB$ (1meter)
General Data	
Product Dimensions	210mm*156mm*378mm
Packaging Dimensions	262mm*212mm*432mm
Net Weight	11kg
Gross Weight	12kg

Note: Specifications are subject to change without prior notice.
Special voltage and power requirements can be customized according to user needs.