

# Balcony Energy Storage System

M-ESS 1.6KWh, M-ESS 3.2KWh



## Main Features



### Flexibility

PV input 25~70Vdc, fits for different types of solar panels



### Adaptability

Compatible with different brand of existing micro inverters



### Smart App

Smart WIFI monitor, install within 30S user friendly



### Wide Temp. Range

Workable in harsh environment (-10°C~+50°C). Auto heating system in low temp. (0°C)



### Long Lifecycle

10+ years life design, 6000 Cycles



### DIY

Easy installation, timing function supports user in setting to the charge/discharge time

MODEL	M-ESS 1.6KWh	M-ESS 3.2KWh
<b>SPECIFICATION</b>		
<b>P.V. Input Features</b>		
Commonly used module power	210 to 650W+ (2 Pieces)	210 to 650W+ (2 Pieces)
Maximum input voltage	100V	100V
MPPT voltage range	25~70Vdc	25~70Vdc
Start-up voltage	25Vdc	25Vdc
Maximum input current	2 x 20A	2 x 20A
Maximum input short circuit current	2 x 30A	2 x 30A
<b>DC Output Features</b>		
DC output current	2 x 20A	2 x 20A
Output voltage range	28~36Vdc	28~36Vdc
USB Charging port	DC5V1A * 2 pcs	DC5V1A * 2 pcs
Timer setting	Timing function supports user setting to the DC Output time through APP or LCD Display	
<b>Lithium Battery Features</b>		
Total Energy	1600Wh	3200Wh
Usable Energy(90%DOD)	1440Wh	2880Wh
Normal Battery Voltage	32.0Vdc	32.0Vdc
Typical Capacity	50Ah	100Ah
Max.Charge Current	25A	50A
Max.Discharge Current	50A	60A
Operation Voltage Range	28.0~36.0Vdc	28.0~36.0Vdc
Operation Temperature	-10°C~+50°C	-10°C~+50°C
Charging Heating Function	when Temp. lower than 0°C, Low temperature charging heating function will start , battery pack will running between 0~5°C (optional)	
<b>Protection</b>		
Protection	Overcharge protection, Overdischarge protection, Solar reverse polarity protection, Overtemperature protection, Lowtemperature charging protection	
IP Grade	IP54	
<b>Other Features</b>		
Display method	LED+LCD	
Display substance	PV status, Battery status, DC Output status, Alarm status	
WiFi substance	PV status, Battery status, DC Output status, Alarm status, Timing setting Function	
<b>Accessory</b>		
PV cable	With 5M PV MC4 extension cable x 2; With 1M PV MC4 extension cable x 2	
<b>Ambient</b>		
Noise(dB)	< 45dB (1 meter)	
Working Temperature	-10°C~+50°C	
Humidity	0~95% ( no condensation)	
Sea Level(m)	≤1500	
<b>Dimension</b>		
L×W×T (products size) mm	L744*W420*H166mm	L744*W420*H166mm
L×W×T (package size) mm	L799*W490*H275mm	L799*W490*H275mm
Weight(NW Kg)	39Kg	46Kg
Weight(GW Kg)	44Kg	51Kg