

Solar-powered Portable Home Energy Storage System



High Efficiency

High power density, low cost. Typical switch time is 20ms.



High Security

Support lithium battery activation wake-up function Protection: Over Temperature, Over load, Over voltage, Over current, Short circuit protection



User Friendly

The industrial design with modern aesthetic style is portable and easy to use.

Specifications

Model	Merak PESS 1000W 2KWh
AC Input	
Rate Input Voltage(VAC)	230;L+N+PE
Voltage Range(VAC)	100~270
Frequency(Hz)	45~65
AC Output	
Rated Capacity(W)	1000
Peak Power(VA)	1000
Rate Voltage(VAC)	230;L+N+PE
Power Factor(PF)	> 0.99
Frequency	50Hz±0.5%
Transfer Time(ms)	≤20
Harmonic Distortion	≤3% (Linear Load) , ≤5% (Non-linear Load)
Charger(PV/DC)	
Solar Charger Type	MPPT
Max PV input power(W)	550
MPPT tracking range (VDC)	18~50
Max PV current(A)	15
Charger(AC Mode)	
Charge Current(A)	Settable:1-160
Battery	
Battery type	LiFePO4
Rated Battery Voltage(VDC)	6.4
Capacity(AH)	314
Energy(Wh)	2009.6
Interface	
Interface	USB 5V1A
General Data	
Ingress Protection	IP20
Operating Temperature	-10~40°C
Relative Humidity	20%~95%(Non-condensing)
Storage Temperature	-15°C~60°C
Net Weight(kg)	~17.5
Dimensions(W*D*H)	295x230x220mm
Max.Operating Altitude	3000m(Derating above 100m)
Noise Emission	≤50dB