



Areswatt New Energy

AW-PPS-2400



Intelligent Energy Storage Portable Power Station

Product features



Smart Applications

Advanced smart applications: MPPT, AC coupling, peak shaving, smart charging, etc., can be used for balcony energy storage and as a portable power source for outdoor environments.



Highly Expandable

Expandable: Up to 5 AW-BAT18 batteries can be added, increasing the maximum system capacity to 10 kWh.



Flexible Design

Modular and flexible design; Integrated 800W MPPT PV input, 2400W bidirectional AC/DC conversion and 1.8 kWh LFP battery. Safe and with long service life.



Stable and Reliable

Supports UPS fast switching in less than 10ms, ensuring stable and reliable power supply.



Other Features

Includes a 30W Bluetooth speaker with two high-quality channels.



Model	AW-PPS-2400
AC Technical Specifications	
Nominal Input/Output/UPS Power	2400W
AC Input/Output Frequency and Voltage	50Hz(45Hz-55Hz), L/N(PE), 220/230V AC
Grid Type	Single phase
Peak Power (off-grid)	2 time of rated power, 10s
Nominal Grid Input/Output Current(A)	10.4A
Maximum Grid Input/Output Current(A)	10.9A
Power Factor	1
DC Technical Specifications	
Maximum DC Input(W)	800W
Maximum PV Input Current(A)	20A
Maximum PV Short-circuit Current(A)	22A
Nominal PV Input Voltage	35 (11 ~ 60)Vdc
DC Start Voltage	25Vdc
MPPT Voltage Range	20~120Vdc:1200W
Number of MPPT	1
Other Technical Specifications	
Display	LCD&APP
Dimensions	L530*W290*H302mm
Communication Interfaces	Wifi , Bluetooth
Approximate Weight(kg)	22kg
Operating Temperature Range	-10°C ~ 50°C
Maximum Operating Altitude(m)	3,000m
Relative Humidity	15% ~ 85%(No condensation)
Battery Certifications	UN38.3, IEC62619
Maximum Charge/Discharge Efficiency	95.0%
Bluetooth Speaker	YES
Interfaces	
AC Input	10A/250V
DC Input	MPPT & Vehicle charging
AC Output	6 AC sockets
DC Output	2 DC 5521 outputs, 12V/3A
USB Output	1x USB-A 5V/2.4A, 12W 3x USB-A (QC3.0): 5V/2.4A; 9V/2A; 12V/1.5A 2x Type-C: 5V/9V/12V/15V/20V 5A, 140W, total 200W

Model	AW-BAT18
Battery Chemistry	LiFePO4
Nominal Battery Voltage(V)	41.6V
Nominal Battery Capacity(Ah)	45Ah
Nominal Battery Energy(Wh)	1872Wh
Maximum Charge/Discharge Current(A)	10A
Battery Operating Voltage Range(V)	39.0~46,8V
Battery Cycle Life	≥6,000 cycles (@25°C±2°C, 0.5C/0.5C, 70%EOL)
Dimensions (mm)	L530*W290*H200mm
Approximate Weight (kg)	13kg
Operating Temperature Range	-10°C ~ 50°C
Maximum Operating Altitude(m)	3,000m
Relative Humidity	15% ~ 85%(No condensation)
Battery Certifications	UN38.3, IEC62619
Maximum Charge/Discharge Efficiency	95.0%



Technical Support

For more information about operating environment, technical parameters and customized solutions, please consult our technical specialists.