AURAWATT

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SP SERIES

SINGLE PHASE (8-11kW)



Warranty
5 Years

Intelligent Load Management

MPPTs Efficiency
99.9 %

Built-in Dual MPPT Tracking Circuit

IP21 Rating Design

DATASHEET

MODEL	AW-SP-8000	AW-SP-10000	AW-SP-11000
BATTERY DATA			
Battery Type	Lithium-ion & Lead-acid		
Rated Battery Voltage (Vdc)	48		
Battery Voltage Range (Vdc)	40~60		
Max. Charge/Discharge Current (A)	150/220		
Forced Wake-up by PV	YES		
PV INPUT			
Max. Input Power (W)	2x6000	2x7000	2x8250
Max. Input Voltage (Vdc)	500		
Rated Input Voltage (Vdc)	370		
MPPT Voltage Range (Vdc)	60~450		
No. of MPPT / Strings Per MPPT	2/2		
Max. Input Current Per MPPT (A)	27		
Max. Short Circuit Current Per MPPT (A)	35A		
GRID INPUT & OUTPUT			
Rated Grid Voltage (Vac)	220/230/240±5%		
Voltage Input Range (Vac)	90~322		
Rated Grid Frequency (Hz)	50/60		
Max Input Current （A)	60		
Total Harmonic Distortion (THDI)	<3% (of nominal power)		
BACKUP DATA			
Rated Output Power (W)	8000	10000	11000
Rated Output Current (A)	35	45	48
Rated Output Frequency (Hz)	50/60±0.1%		
Overload Capability	10s@105%～120%;5s@121%～200%;100ms@＞200%		
Switch Time (ms)	10ms for Computer Equipment,20ms for Household Equipment		
Total Harmonic Distortion (THDv)	<3%		
EFFICIENCY			
Max. Efficiency	97.0%		
MPPT Tracking Efficiency	99.90%		
PROTECTION			
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Power Network Monitoring, Earth Fault Detection, Surge protection level		
Surge Protection	DC Type II/AC Type II		
Over Voltage Category	DC Type II/AC Type III		
GENERAL DATA			
Operating Temperature (°C)	-10~+55		
Dimensions [WHD] (mm)	420*450*105		
Weight (kg)	15.5		
Topology	Non-Isolated		
Cooling	Internal Fan		
Altitude (m)	≤3000		
Protection Level	IP21		
Communication	RS485 / CAN / Dry contact/ External battery NTC/Parallel communication /WIFI(optional)/GPRS		
Warranty	5 Years (Standard) / 8 Years (Optional)		
STANDARDS			
Efficiency Standard	IS 17980: 2022/IEC 62891:2020		
Safety Standards	IS 16169: 2019/ IEC 62116: 2014		
EMC Standards	IS 16221 (PART 2): 2015/ IEC 62109-2		