AURAWATT

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SP SERIES

SINGLE PHASE (3-6kW)



Warranty
8 Years

Fast 135A Charging

MPPTs Efficiency
99.9 %

200% Overload Tolerance

IP66 Rating Design

MODEL	AW-SP-3000	AW-SP-4000	AW-SP-5000	AW-SP-6000
BATTERY DATA				
Battery Type	Lithium-ion & Lead-acid			
Rated Battery Voltage (Vdc)	48			
Battery Voltage Range (Vdc)	40-60			
Max. Charge/Discharge Current (A)	125/135			
Forced Wake-up by PV	Yes			
PV INPUT				
Max. Input Power (W)	6000	8000	10000	12000
Max. Input Voltage (Vdc)	500			
Rated Input Voltage (Vdc)	370			
Start-Up Voltage (Vdc)	-			
MPPT Voltage Range (Vdc)	60-450			
No. of MPPT / Strings Per MPPT	1/2			
Max. Input Current Per MPPT (A)	28			
Max. Short Circuit Current Per MPPT (A)	35			
GRID INPUT & OUTPUT				
Rated Grid Voltage (Vac)	220/230/240 ±5%			
Rated Grid Frequency (Hz)	50/60			
Grid Voltage Range (V)	80 - 322			
Rated Grid-Tied Power (W)	-			
Rated Grid-Tied Current (A)	-			
Max Grid-Tied Apparent Power (VA)	-			
Max Grid-Tied Current (A)	-			
Max Input Apparent Power (VA)	-			
Max Input Current (A)	40			
Total Harmonic Distortion (THDI)	<3%			
Displacement Power Factor	-			
BACKUP DATA				
Rated Output Power (W)	3000	4000	5000	6000
Rated Output Current (A)	27			
Rated Output Frequency (Hz)	50/60 ±0.1%			
Overload Capability	1min@101-110%, 10s@110%-150%, 5s@150%-200%, 100ms@ > 200%			
Switch Time (ms)	<10			
Total Harmonic Distortion (THDV)	<3%			
EFFICIENCY				
Max. Efficiency	97.00%			
Euro Efficiency	-			
MPPT Efficiency	99.90%			
PROTECTION				
Integrated	PV Reverse-polarity Protection, PV Insulation Detection, Ground Fault Monitoring,Over Current Protection, Over Voltage Protection			
Surge Protection	DC Type II/AC Type II			
Over Voltage Category	OVC II (DC), OVC III (AC)			
AFCI	-			
GENERAL DATA				
Operating Temperature (°C)	-40~+60 (Above 45°C Derating)			
Dimensions [W*H*D] (mm)	395*485*156			
Weight (kg)	14.5			
Topology	Non-Isolated			
Cooling	Smart Cooling			
Altitude (m)	≤3000			
Protection Level	IP66			
Communication	RS485/CAN/Dry contact/ External battery NTC/ Parallel communication/WIFI(optional)/GPRS			
Warranty	8 Years (Standard) / 10 Years (Optional)			
Max. No. of Parallel Units	-			
STANDARDS				
Grid Standards	IS 17980: 2022/IEC 62891:2020			
Safety Standards	IS 16169: 2019/ IEC 62116: 2014			
EMC Standards	IS 16221 (PART 2): 2015/ IEC 62109-2			