

AURAWATT SP SERIES

SINGLE PHASE (3-12kW)



Warranty *
8 Years | 10 Years



Fast 230A Charging



MPPTs Efficiency
99.9 %



**200% Overload
Tolerance**



**IP66 Rating
Design**



* 8 Years Standard and 10 Years Optional Warranty

Model	3kW	6kW	8kW	10kW	12kW
Battery Data					
Battery Type	Lithium-ion & Lead-acid				
Rated Battery Voltage (Vdc)	48				
Battery Voltage Range (Vdc)	40-60				
Max. Charge/Discharge Current (A)	80/100	125/135	180/180	200/200	230/230
Forced Wake-up by PV	Yes				
PV Input					
Max. Input Power (W)	8000	12000	12000	15000	18000
Max. Input Voltage (Vdc)	500				
Rated Input Voltage (Vdc)	370				
Start-Up Voltage (Vdc)	-		100		
MPPT Voltage Range (Vdc)	60-450		100-425		
No. of MPPT / Strings Per MPPT	1/2		3/2+1+1		
Max. Input Current Per MPPT (A)	28		28/16/16		
Max. Short Circuit Current Per MPPT (A)	35		44/25/25		
Grid Input & Output					
Rated Grid Voltage (Vac)	220/230/240 ±5%		L/N/PE, 230		
Rated Grid Frequency (Hz)	50/60		50		
Rated Grid-Tied Power (W)	-		8000	10000	12000
Rated Grid-Tied Current (A)	-		34.8	43.5	52.2
Max Grid-Tied Apparent Power (VA)	-		8800	11000	13200
Max Grid-Tied Current (A)	-		40	50	60
Max Input Apparent Power (VA)	-		12000	15000	18000
Max Input Current (A)	26	40	52.2	65.2	78.3
Total Harmonic Distortion (THDI)	<3%				
Displacement Power Factor	-		0.8 leading to 0.8 lagging		
Backup Data					
Rated Output Power (W)	3000	6000	8000	10000	12000
Rated Output Current (A)	18	27	34.8	43.5	52.2
Rated Output Frequency (Hz)	50/60 ±0.1%		50		
Overload Capability	1min@101-110%, 10s@110%-150%, 5s@150%-200%, 100ms@ > 200%		110%, continuous; 200%, 10s		
Switch Time (ms)	<10				
Total Harmonic Distortion (THDV)	<3%				
Efficiency					
Max. Efficiency	97.00%		97.80%		
Euro Efficiency	-		96.50%		
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)		DC Type II/AC Type III		
AFCI	-		Optional		
General Data					
Operating Temperature (°C)	-40~+60 (Above 45°C Derating)		-25 to +60 (Above 45°C Derating)		
Dimensions [W*H*D] (mm)	395*485*156		450*570*268		
Weight (kg)	14.5		39		
Topology	Non-Isolated		Transformerless		
Cooling	Smart Cooling				
Altitude (m)	≤3000				
Protection Level	IP66				
Communication	RS232/RS485/CAN/Dry contact/ External battery NTC/ Parallel communication/WIFI(optional)		RS485, WIFI/GPRS, CAN2.0		
Warranty	8 Years (Standard) / 10 Years (Optional)				
Max. No. of Parallel Units	-		6		
Standards					
Grid Standards	-		VDE-AR-N 4105, VDE V 0126-1-1. CEI 0-21, G98G99/, EN 50438/EN50549, NRS 097		
Safety Standards	IEC 62109-1:2010, EN 62109-1:2010, IEC 62109-2:2011, EN 62109-2:2011		IEC/EN 62109-1, IEC/EN 62109-2		
EMC Standards	EN IEC 61000-6-1:2019. EN IEC 61000-6-3:2021, EN 61000-3-12:2011, EN IEC 61000-3-11:2019				