

AURAWATT TP-L SERIES

THREE PHASE (8-12kW)



Warranty *
8 Years | 10 Years



Fanless Silent Design



MPPTs Efficiency
99.9 %



**150% Overload
Tolerance**



**IP66 Rating
Design**



* 8 Years Standard and 10 Years Optional Warranty

DATASHEET

Model	8kW	10kW	12kW
Battery Data			
Battery Type	Lithium-ion & Lead-acid		
Rated Battery Voltage (Vdc)	400		
Battery Voltage Range (Vdc)	135-800		
Max. Charge/Discharge Current (A)	33/33		
PV Input			
Max. Input Power (W)	12000	15000	18000
Max. Input Voltage (Vdc)	1000		
Rated Input Voltage (Vdc)	600		
Start-Up Voltage (Vdc)	120		
MPPT Voltage Range (Vdc)	180~900		
No. of MPPT / Strings Per MPPT	2/1+1		
Max. Input Current Per MPPT (A)	16/16		
Max. Short Circuit Current Per MPPT (A)	20/20		
Grid Input & Output			
Rated Grid Voltage (Vac)	3L/N/PE, 400		
Rated Grid Frequency (Hz)	50		
Rated Grid-Tied Power (W)	8000	10000	12000
Rated Grid-Tied Current (A)	11.6	14.5	17.4
Max Grid-Tied Apparent Power (VA)	8800	11000	13200
Max Grid-Tied Current (A)	13.4	16.7	20
Max Input Apparent Power (VA)	8800	11000	13200
Max Input Current (A)	13.4	16.7	20
Total Harmonic Distortion (THDI)	<3%		
Displacement Power Factor	0.8 leading to 0.8 lagging		
Backup Data			
Rated Output Power (W)	8000	10000	12000
Rated Output Current (A)	11.6	14.5	17.4
Rated Output Frequency (Hz)	50		
Overload Capability	110%, continuous, 150%, 10s		
Switch Time (ms)	<=10		
Total Harmonic Distortion (THDv)	<3%		
Efficiency			
Max. Efficiency	97.80%	98.00%	98.40%
Euro Efficiency	97.10%	97.30%	97.30%
MPPT Efficiency	99.90%		
Protection			
Integrated	PV Reverse-polarity Protection, PV Insulation Detection, Ground Fault Monitoring, Over Current Protection, Over Voltage Protection, Leakage protection		
Surge Protection	DC Type II/AC Type II		
Over Voltage Category	DC Type II/AC Type III		
AFCI	Optional		
General Data			
Operating Temperature (°C)	~25 to +60 (Above 45°C Derating)		
Dimensions [WHD] (mm)	565 x 465 x 197		
Weight (kg)	31		
Topology	Transformerless		
Cooling	Natural Cooling		
Altitude (m)	<=3000		
Protection Level	IP66		
Communication	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, VDE0126-1-1, EN50549, CEI 0-21/16, EIFS, PSG, TOR		
Safety Standards	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		