AURAWATT

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TP-X SERIES

THREE PHASE (8-20kW)



Warranty
8 Years

Fanless Silent Design

MPPTs Efficiency
99.9 %

150% Overload Tolerance

IP66 Rating Design



DATASHEET

MODEL	AW-TP 8000-L	AW-TP 10000-L	AW-TP 12000-L	15KW	AW-TP 20000-H
BATTERY DATA					
Battery Type	Lithium-ion				
Battery Voltage Range (Vdc)	135-800			135-750	135-750
Max. Charge/Discharge Current (A)	33/33			40/40	40/40
PV INPUT					
Max. Input Power (W)	12000	15000	18000	24000	32000
Max. Input Voltage (Vdc)	1000			1000	1000
Rated Input Voltage (Vdc)	600			620	620
Start-Up Voltage (Vdc)	120			200	200
MPPT Voltage Range (Vdc)	180~900			200-850	200-850
No. of MPPT / Strings Per MPPT	2/1+1			2/2	2/2
Max. Input Current Per MPPT (A)	16/16			30/30	30/30
Max. Short Circuit Current Per MPPT (A)	20/20			40/40	40/40
GRID INPUT & OUTPUT					
Rated Grid Voltage (Vac)	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated Grid Frequency (Hz)	50			50	50
Rated Grid-Tied Power (W)	8000	10000	12000	15000	20000
Rated Grid-Tied Current (A)	11.6	14.5	17.4	21.7	29
Max Grid-Tied Apparent Power (kVA)	8800	11000	13200	16.5	22
Max Grid-Tied Current (A)	13.4	16.7	20	25	33.5
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			0.8 leading to 0.8 lagging	
BACKUP DATA					
Rated Output Power (W)	8000	10000	12000	15000	20000
Rated Output Current (A)	11.6	14.5	17.4	21.7	29
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%	99.9	99.9
Euro Efficiency	97.10%	97.30%	97.30%	97.5	97.5
MPPT Efficiency	99.90%			98.4	98
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)			-30~60	-30~60
Dimensions [WHD] (mm)	565 x 465 x 197			534×418×210	534×418×210
Weight (kg)	31			31	31
Topology	Transformerless				
Cooling	Natural Cooling			Smart Fan	
Altitude (m)	<=3000				
Protection Level	IP66				
Communication	RS485, WiFi/GPRS, CAN2.0				
Warranty	8 Years (Standard) / 10 Years (Optional)			5 Years (Standard)	
Max. No. of Parallel Units	6			1	1
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				