AURAWATT

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TP-H SERIES

THREE PHASE (25-50kW)



Warranty
5 Years

Fanless Silent Design

MPPTs Efficiency
99.9 %

150% Overload Tolerance

IP66 Rating Design

DATASHEET

MODEL	AW-TP-25000-H	AW-TP-30000-H	36KW	AW-TP-40000-H	AW-TP-50000-H
PV SIDE					
Max. PV Array Power [kWp]	40	48	57.6	64	80
Max. PV Input Voltage * [V]	1000				
Rated PV Input Voltage [V]	620				
Start-up Voltage [V]	135				
MPPT Operating Voltage Range * [V]	200-850	200-850	200-850	200-850	200-850
No. of MPP Trackers	4	4	4	4	4
No. of Strings per MPPT	2/2/2/2	2/2/2/2	2/2/2/2	2/2/2/2	2/2/2/2
Max. Input Current per MPPT ** [A]	30/30/30/30	30/30/30/30	30/30/30/30	30/30/30/30	30/30/30/30
Max. Short-circuit Current per MPPT [A]	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40
BATTERY SIDE					
Battery Type	Lithium-ion				
Battery Voltage Range *** [V]	135-750				
No. of Battery Input	1				
Max. Charge/Discharge Current [A]	100/100				
Max. Charge/Discharge Power [kW]	25/25	30/30	36/36	40/40	50/50
GRID SIDE (ON-GRID)					
Rated Output Power [kW]	25	30	36	40	50
Max. Output Apparent Power [kVA]	27.5	33(1)	39.6	44	55
Rated AC Voltage	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated AC Frequency [Hz]	50/60				
Rated Output Current [A]	37.9/38.0/34.7	45.5/43.5/41.7	54.5/52.0/50	60.6/60.0/55.6	75.8/75.0/69.4
Max. Output Current [A]	42	50(2)	60	66	83
Power Factor	0.8 leading ...0.8 lagging				
THDi (@Rated Power)	<3%				
Max. Input Apparent Power **** [kVA]	30	36	43.5	48	60
Rated AC Voltage	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated AC Frequency [Hz]	50/60				
Max. AC Input Current [A]	43.5	52.2	63	69.6	87
BACK-UP SIDE (OFF-GRID)					
Rated Output Power [kW]	25	30	36	40	50
Peak Output Apparent Power [kVA]	33.75 @10s	40.5 @10s	48.6 @10s	54 @10s	67.5 @10s
Rated Output Voltage	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated Output Frequency [Hz]	50/60				
Rated Output Current [A]	37.9/38.0/34.7	45.5/43.5/41.7	54.5/52.0/50	60.6/60.0/55.6	75.8/75.0/69.4
On/Off-grid Switching Time	< 10ms				
THDv (@Linear Load)	<3%				
GENERATOR SIDE					
Max. Input Apparent Power [kVA]	30	36	43.5	48	60
Rated Input Voltage [V]	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated Input Frequency [Hz]	50/60				
Max. Input Current [A]	45.5	54.5	65.9	72.7	90.9
EFFICIENCY					
MPPT Efficiency	99.90%				
Max. Efficiency	98.80%				
European Efficiency	98.30%				
PROTECTION					
Integrated Protection	DC reverse polarity protection / Battery input reverse connection protection / Insulation resistance protection / Surge protection(DC/AC: Type ll/Type ll) / Over-temperature protection / Residual current protection / lslanding protection / AC over-voltage protection / Overload protection / AC short-circuit protection				
GENERAL DATA					
Dimensions [W×H×D mm]	800×620×300				
Weight [KG]	72				
Ingress Protection	IP65				
Standby Self-consumption [W]	< 40				