

Three phase hybrid inverters 8 to 12 kW

# ASW H-T3 Series



Models (w/ EPS):  
ASW08kH-T3  
ASW10kH-T3  
ASW12kH-T3

Models (w/o EPS):  
ASW08kH-T3-O  
ASW10kH-T3-O  
ASW12kH-T3-O



## Easy-to-install

- Quick and easy-to-install with standard tools
- Compact wall mount design
- Simple battery and smart meter interfaces for quick and secure installation



## Safe & reliable

- Up to 150 % PV array oversizing for higher yields
- Available with or without asymmetrical power output <sup>1)</sup>
- UPS level switching time < 10 ms
- IP66 rated design for indoor and outdoor use
- Arc fault circuit interrupter (AFCI) <sup>2)</sup>



## User-friendly

- 3 independent MPPTs for flexible and higher kWp PV array design
- Smart setup, commissioning and monitoring via Solplanet App
- Intelligent operation modes and smart battery management for DOD / Time of Use / Power setting
- Max. 16 A input current, ideal for bifacial and large PV modules
- Supporting parallel for on-grid and off-grid operation

# Technical Datasheet

ASW08kH-T3

ASW10kH-T3

ASW12kH-T3

	ASW08kH-T3	ASW10kH-T3	ASW12kH-T3				
PV input	Max. PV array power	12000 Wp	15000 Wp	18000 Wp			
	Max. input voltage	1100 V					
	MPP voltage range / rated input voltage	200 V to 950 V / 630 V <sup>3)</sup>					
	Min. input voltage / start voltage	60 V / 180 V					
	No. of independent MPPT trackers / strings per MPPT input	3 / 1					
	Max. input current / Max. power per MPP tracker	16 A	10000 W	16 A	10000 W	16 A	10000 W
	Max. short-circuit current per MPP tracker	24 A					
Battery input	Battery voltage range	120 V to 600 V					
	Max. charging / discharging power	8000 W	10000 W	12000 W			
	Max. charging current / Max. discharging current	30 A					
	Battery type	LiFePO4					
AC input	Rated grid voltage	3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V					
	Rated grid frequency	50 Hz / 60 Hz					
	Max. input power from grid	16000 W	20000 W	24000 W			
	Max. input current from grid	23.2 A	29.0 A	34.8 A			
AC output	AC voltage range / Nominal AC voltage	270V to 480V / 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V					
	Rated AC grid frequency	50 Hz / 60 Hz					
	AC grid frequency range	45 ~ 55 Hz / 55 ~ 65 Hz					
	Rated apparent power	8000 VA	10000 VA	12000 VA			
	Max. apparent power	8000 VA	10000 VA	12000 VA			
	Rated grid output current (@400 V)	11.6 A	14.5 A	17.4 A			
	Max. grid output current(@400 V)	12.8 A	16.0 A	19.2 A			
	Power factor at rated power / adjustable displacement	1 / 0.8 leading to 0.8 lagging					
	Harmonics THDi (@ Nominal power)	< 3 % (of nominal power)					
	EPS output	Nominal output voltage	3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V				
Nominal output frequency		50 Hz / 60 Hz					
Rated apparent power		8000 VA	10000 VA	12000 VA			
Rated current (@400 V)		11.6 A	14.5 A	17.4 A			
Max. current (@400 V, continuous on-grid / off-grid)		23.2 A	11.6 A	29.0 A	14.5 A	34.8 A	17.4 A
Max. power on each phase (@400 V, continuous on-grid / off-grid)		5333 W	2667 W	6667 W	3333 W	8000 W	4000 W
Peak output apparent power (@400 V, continuous on-grid / off-grid up to 10s)		16000 VA	16000 VA	20000 VA	20000 VA	24000 VA	24000 VA
Max. switch time		< 10 ms					
Output THDv (@ Linear load)		2 %					
Efficiency		MPPT efficiency	99.9 %				
	Euro efficiency / Max. efficiency	97.2 % / 98.0 %	97.9 % / 98.4 %				
Safety protection	DC surge protection( Type II, according to EN/IEC 61643-11)	●					
	Insulation resistance detection	●					
	PV string input reverse polarity protection	●					
	Battery input reverse polarity protection	●					
	Ground fault monitoring	●					
	Residual current monitoring unit	●					
	AC short circuit protection	●					
	Anti-islanding protection	●					
	Arc fault circuit interrupter (AFCI)	○ <sup>2)</sup>					
	Dimensions (W / H / D)	545 / 465 / 205 mm					
General data	Weight	26 kg					
	Operating temperature range	-25 °C ... +60 °C					
	Cooling concept	Natural convection					
	Noise emission	< 35 dB					
	Degree of protection (as per IEC 60529)	IP66					
	Max. relative humidity	100 %					
	Max. operating altitude	4000 m					
	User interface	LED & App					
	BMS interface	CAN					
	Smart meter interface	RS485					
Features	Communication interfaces	Dongle: WiFi (2.4 GHz) / LAN (100 Mbps) Inverter: RS485 (ModBus RTU), LAN (100 Mbps, Modbus TCP only) <sup>4)</sup>					
	Digital output (dry contact) / No. of outputs	● / 2					
	Digital input (dry contact) / No. of inputs	● / 4					
	Integrated power control / export power control	● / ●					

● standard features ○ optional features - not available

<sup>1)</sup> Asymmetrical power output functionality released in August 2024, please confirm version with Solplanet's sales staff before purchase.

<sup>2)</sup> AFCI functionality released in April 2025, please confirm version with Solplanet's sales staff before purchase.

<sup>3)</sup> The latest optimised platform design supports MPP voltage range at 150V-950V, pending subsequent certificate updates.

<sup>4)</sup> Modbus TCP functionality released in April 2025, please confirm version with Solplanet's sales staff before purchase.



# Technical Datasheet

ASW08kH-T3-O

ASW10kH-T3-O

ASW12kH-T3-O

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	Battery input reverse polarity protection	●					
	Ground fault monitoring	●					
	Residual current monitoring unit	●					
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