

Three phase hybrid inverters 5 to 12 kW

ASW H-T2/T3 Series



Models:

ASW05kH-T2

ASW05kH-T2-O

ASW08kH-T3

ASW08kH-T3-O

ASW10kH-T3

ASW10kH-T3-O

ASW12kH-T3

ASW12kH-T3-O



Easy-to-install

- Quick & easy-to-install with basic tools
- Compact wall mount design
- Simple battery and smart meter interfaces for faster installation



Reliable

- Up to 150 % PV array oversizing for higher yields
- 100% unbalanced three phase AC output
- UPS level switching time < 10 ms
- IP66 rated design for outdoor use



User-friendly

- T3 series has 3 independent MPPT's for flexible and higher kWp PV array design
- Setup, commissioning and monitoring via the Solplanet app
- Intelligent work modes and customisable battery management for DOD /Time of Use/Power setting
- Max. 20 A input current of T2 series and Max. 16 A input current of T3 series, ideal for bifacial and large PV modules

Technical Datasheet

ASW
05kH-T2

ASW
08kH-T3

ASW
10kH-T3

ASW
12kH-T3

	ASW 05kH-T2	ASW 08kH-T3	ASW 10kH-T3	ASW 12kH-T3	
PV input	Max. PV array power	7500 Wp	12000 Wp	15000 Wp	18000 Wp
	Max. input voltage	1100 V			
	MPP voltage range / rated input voltage	150 V to 950 V / 630 V	200 V to 950 V / 630 V		
	Min. input voltage / start voltage	60 V / 180 V			
	No. of independent MPPT trackers / strings per MPPT input	2 / 1	3 / 1		
	Max. input current per MPP tracker	20 A	16 A		
	Max. short-circuit current per MPP tracker	30 A	24 A		
Battery input	Battery voltage range	120 V to 600 V			
	Max. charging / discharging power	5000 W	8000 W	10000 W	12000 W
	Max. charging current / Max. discharging current	30A			
	Battery type	LiFePO4			
AC output	AC voltage range / Nominal AC voltage	270 V to 480 V / 3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V			
	Rated AC grid frequency	50 Hz / 60 Hz			
	AC grid frequency range	45 ~ 55 Hz / 55 ~ 65 Hz			
	Rated apparent power	5000 VA	8000 VA	9999 VA	12000 VA
	Max. apparent power	5000 VA	8000 VA	9999 VA	12000 VA
	Rated grid output Current (@400 V)	7.3 A	11.6 A	14.5 A	17.4 A
	Max. grid output current (@400 V)	8.0 A	12.8 A	16.0 A	19.2 A
	Harmonics THDi (@Nominal power)	< 3 % (of nominal power)			
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	10000 W	16000 W	20000 W	24000 W
	Max. input current from grid	14.5 A	23.2 A	29.0 A	34.8 A
EPS output	Nominal output voltage	3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V			
	Nominal output frequency	50 Hz / 60 Hz			
	Rated apparent power	5000 VA	8000 VA	9999 VA	12000 VA
	Peak output apparent power	2 times of rated power, 10 s			
	Rated Current (@400 V)	7.3 A	11.6 A	14.5 A	17.4 A
	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	●			
General data	Power factor at rated power / adjustable displacement	1 / 0.8 leading to 0.8 lagging			
	Dimensions (W / H / D)	545 mm / 465 mm / 205 mm			
	Weight	24.5 kg	26 kg		
	Operating temperature range	-25 °C ... +60 °C			
	Cooling concept	Natural convection			
	Degree of protection (as per IEC 60529)	IP66			
	Max. relative humidity	100 %			
	Max. operating altitude	3000 m			
Features	User interface	LED & App			
	BMS interface	CAN			
	Smart meter interface	RS485			
	Internet communication interfaces	Wifi / LAN			
	Digital output (dry contact) / No. of outputs	● / 2			
	Digital input (dry contact) / No. of inputs	● / 4			
	Integrated power control / export power control	● / ●			



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	Integrated power control / export power control	● / ●			

● standard features ○ optional features - not available

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