

Technical Datasheet

PV input	Max. PV array power	7500 Wp		9000 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					
	Max. input current per MPP tracker	20 A					
	Max. short-circuit current per MPP tracker	30 A					
Battery input	Battery voltage range	120 V to 600 V					
	Max. charging / discharging power	5000 W	6000 W	8000 W	10000 W	12000 W	
	Max. charging current / Max. discharging current	30 A					
	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	6000 VA	8000 VA	10000 VA	12000 VA	
	Max. apparent power	5000 VA	6000 VA	8000 VA	10000 VA	12000 VA	
	Rated grid output Current (@400 V)	7.3 A	8.7 A	11.6 A	14.5 A	17.4 A	
	Max. grid output current(@400 V)	8.0 A	9.6 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	5000 W	6000 W	8000 W	10000 W	12000 W	
	Max. input current from grid	7.3 A	8.7 A	11.6 A	14.5 A	17.4 A	
Effi- ciency	MPPT efficiency	99.9 %					
	Euro efficiency / Max. efficiency	97.2 % / 98.0 %	97.5 % / 98.2 %	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					
	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	4000 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	● / ●					

● standard features ○ optional features - not available

Three phase hybrid inverters 8 to 12 kW

ASW H-T3 Series



Models:
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

- 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. 16 A input current, ideal for bifacial and large PV modules