

Three phase hybrid inverters 8 to 12 kW

ASW H-T1 Series



Models:

ASW08kH-T1

ASW10kH-T1

ASW12kH-T1



Easy-to-install

- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



Reliable

- Smart energy management
- UPS capability - power during blackouts
- IP65 rated design for outdoor use



User-friendly

- User friendly app interface
- Online monitoring via Wi-Fi and Solplanet apps
- Support unbalanced output

Technical DataSheet

ASW08kH-T1

ASW10kH-T1

ASW12kH-T1

PV Input	Max. PV array power	12 kWp STC	15 kWp STC	18 kWp STC
	Max. input voltage	1000 V		
	MPP voltage range	180 V ~ 850 V		
	Min. input voltage / start voltage	125 V/ 180 V		
	No. of independent MPPT trackers / strings per MPPT input	2 / (1/1)		
	Max. input current per MPP tracker	13 A		
Battery input	Max. PV array power	25A		
	Battery type	LiFePO4		
	Battery voltage range	125 V to 600 V		
	Max. charging/ discharging power	8.8KW/8.8KW	11kW/11kW	13.2kW/13.2kW
	Max. charging current / discharging current	50 A / 50 A		
AC output	Rated. charging current / discharging current	40 A / 40 A		
	Nominal AC voltage	3W+N+PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V		
	AC voltage range	360V~440V		
	Rated AC grid frequency	50 Hz / 60 Hz		
	AC grid frequency range	50 Hz±5Hz / 60 Hz±5Hz		
	Rated active power	8 kW	10 kW	12 kW
	Rated apparent power	8 kVA	10 kVA	12 kVA
	Max. apparent power	8.8 kVA	11 kVA	13.2 kVA
	Rated grid output Current (@400V)	11.6 A	14.5 A	17.4 A
	Max. grid output current	12.7A	15.9A	19.1A
AC input	Harmonics THDi (@ Nominal power)	< 3%		
	Rated grid voltage	3W+N+PE, 220 / 380 V; 230 / 400 V; 240 / 415 V		
	Rated grid frequency	50Hz / 60Hz		
	Rated apparent power	16 kW	20 kW	24 kW
	Max. input apparent power from grid	17.6 kVA	22 kVA	26.4 kVA
	Rated input current from grid	23.1 A	28.9 A	34.7 A
EPS output	Max. input current from grid	25.5 A	31.8 A	38.2 A
	Nominal output voltage	3W+N+PE, 220 / 380 V; 230 / 400 V; 240 / 415 V		
	Nominal output frequency	50 Hz / 60 Hz		
	Rated apparent power	8 kVA	10 kVA	12 kVA
	Max. output apparent power	8 kVA	10 kVA	12 kVA
	Peak output apparent power	8.8 kVA	11 kVA	13.2 kVA
	Rated Current (@400V)	11.6 A	14.5 A	17.4 A
	Max. output current	12.7 A	15.9 A	19.1 A
	Max. switch time	≤20 ms		
	Output THDi (@ Linear load)	<2%		
Efficiency	MPPT efficiency	≥99.5%		
	Max efficiency	97.90%	98.20%	98.20%
	Euro efficiency	97.20%	97.50%	97.50%
	Max. battery to load efficiency	97.50%	97.50%	97.60%
Safety protection	DC-side disconnection device	●		
	PV string- / Battery input reverse polarity protection	● / ●		
	All-pole sensitive residual current monitoring unit	●		
	Anti-islanding protection	●		
	Ground fault protection	●		
	AC output over current protection	●		
	AC output short circuit current protection	●		
	AC over voltage protection	●		
	Protection class (as per IEC 62109-1)	I		
	overvoltage category (as per IEC 62109-1)	AC: III; DC: II		
General data	Power factor at rated power / adjustable displacement	≥0.99 / 0.8 leading to 0.8 lagging		
	Dimensions (W / H / D)	530 / 200 / 560 mm		
	Device weight	30kg	31kg	32kg
	Operating temperature range	-25 °C ... +60 °C		
	Noise emissions (typical)	< 35 dB(A)		
	Standby consumption	< 3 W		
	Cooling concept	Natural convection		
	Ingress protection rating (as per IEC 60529)	IP65		
	Climatic category (according to IEC 60721-3-4)	4K4H		
	"Max. permissible value for relative humidity (non-condensing)"	0~95%		
	Max. operating altitude	4000m (>2000m power derating)		
	Country of Manufacture	THE PEOPLE'S REPUBLIC OF CHINA		



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ASW12kH-T1

Features	Inverter topology (Solar/ battery)	Transformerless / Transformerless
	User interface	LED & App
	Communication with BMS	RS485 / CAN
	Communication with meter	RS485
	Communication with portal	WIFI stick
	Integrated power control / Zero export control	● / ●
Certi- ficates	Grid	EN 50549-1,RfG 3
	Safty	EN 62109-1, EN 62109-2
	EMC	IEC 61000-6-1/-2/-3/-4, IEC 61000-3-11, IEC61000-3-12

● Standard features / ○ optional features / – not available
* Certifications will continue to increase with market requirement and not only include the standards listed in this table.
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