Three phase hybrid inverters 5 to 12 kW

ASW H-T2 Series

Models (w/ EPS):
ASW05kH-T2
ASW06kH-T2
ASW08kH-T2
ASW10kH-T2
ASW12kH-T2

Models (w/o EPS):
ASW05kH-T2-O
ASW06kH-T2-O
ASW08kH-T2-O
ASW10kH-T2-O
ASW12kH-T2-O

Easy-to-install

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

Reliable

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

User-friendly

- 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, ideal for bifacial and large PV modules

Technical Datasheet

		Einzelcarports				Doppelcarports					
		ASW05kH-T2		ASW06kH-T2		ASW08kH-T2		ASW10kH-T2		ASW12kH-T2	
		7500 Wp		9000 Wp		12000 Wp		15000 Wp		18000 Wp	
PV input	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 / Max. power per MPP tracker	20 A	7500 W	20 A	9000 W	20 A	10000 W	20 A	10000 W	20 A	10000 W
	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	30A									
	Battery type	LiFePO4									
AC input	Rated grid voltage	3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V									
	Rated grid frequency	50 Hz / 60 Hz									
	Max. input power from grid	10000 W		12000 W		16000 W		20000 W		24000 W	
	Max. input current from grid	14.5 A		17.4 A		23.2 A		29.0 A		34.8 A	
AC output	AC voltage range / Nominal AC voltage	270 V to 480 V / 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	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)									
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	5000 VA		6000 VA		8000 VA		10000 VA		12000 VA	
	Rated current (@400 V)	7.3 A		8.7 A		11.6 A		14.5 A		17.4 A	
	Max. current (@400 V, continuous on-grid / off-grid)	14.5 A	7.3 A	17.4 A	8.7 A	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)	3333 W	1667 W	4000 W	2000 W	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)	10000 VA	10000 VA	12000 VA	12000 VA	16000 VA	16000 VA	20000 VA	20000 VA	24000 VA	24000 VA
	Max. switch time	< 10 ms									
	Output THDv (@Linear load)	2 %									
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

* The latest optimised platform design supports MPP voltage range at 150V-950V, pending subsequent certificate updates.

Version: Feb 2024

Technical Datasheet

		ASW05kH-T2-O		ASW06kH-T2-O		ASW08kH-T2-O		ASW10kH-T2-O		ASW12kH-T2-O	
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 / Max. power per MPP tracker	20 A	7500 W	20 A	9000 W	20 A	10000 W	20 A	10000 W	20 A	10000 W
	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 input	Rated grid voltage	3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V									
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	Max. input power from grid	5000 W		6000 W		8000 W		10000 W		12000 W	
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	Harmonics THDi (@ Nominal power)	< 3 % (of nominal power)									
Efficiency	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	●									
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