

Three phase hybrid inverters 5 to 12 kW

ASW H-T2-DG Series



Models:

ASW05kH-T2-DG

ASW06kH-T2-DG

ASW08kH-T2-DG

ASW10kH-T2-DG

ASW12kH-T2-DG



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
- UPS level switching time < 10 ms
- IP66 rated design for outdoor use
- DC SPD surge protection



User-friendly

- Max. 50A charging/discharging current
- Compatible with diesel generator
- 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

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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									
	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 power from PV and grid	12000 W									
	Max. charging power from grid	5000 W	6000 W	8000 W	10000 W	12000 W					
	Max. discharging power	5000 W	6000 W	8000 W	10000 W	12000 W					
	Max. charging current / Max. discharging current	50 A									
	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 %									
	Generator side	Max. input apparent power	7500 VA	9000 VA	12000 VA	15000 VA	18000 VA				
Max. charging power of battery		5000 W	6000 W	8000 W	10000 W	12000 W					
Rated AC voltage		3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V									
Rated AC frequency		50 Hz / 60 Hz									
Efficiency	MPPT efficiency	99.9 %									
	Euro efficiency / Max. efficiency	97.2 % / 98.0 %	97.5 % / 98.2 %	97.9 % / 98.4 %							

● standard features ○ optional features - not available

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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)			625 mm / 465 mm / 241 mm	
	Weight			28 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 / Ethernet	
	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

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