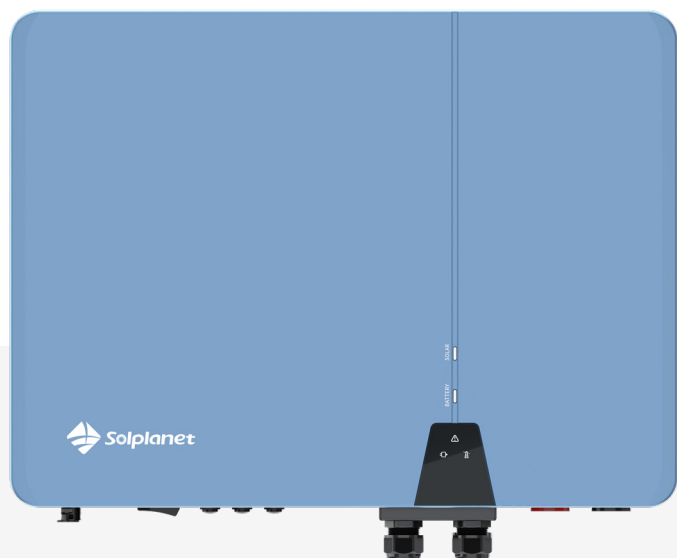


Three phase hybrid inverters 8 to 15 kW

ASW H-T3-DG Series



Models:

ASW08kH-T3-DG

ASW10kH-T3-DG

ASW12kH-T3-DG

ASW15kH-T3-DG



Easy-to-install

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



Safe & reliable

- Up to 150 % PV array oversizing for higher yields
- Asymmetrical power output²
- UPS level switching time < 10 ms
- IP66 rated design for indoor and outdoor use
- DC SPD surge protection
- Arc fault circuit interrupter (AFCI)
- ShadeSol shadow management



User-friendly

- 3 independent MPPTs for flexible and higher kWp PV array design
- Max. 50A charge / discharge current
- Compatible with diesel generator
- Smart setup, commissioning and monitoring via Solplanet App
- Intelligent operation modes and smart battery management for DOD / Time of Use / Power setting
- Max. 16 A input current, ideal for bifacial and large PV modules
- Supporting parallel for on-grid and off-grid operation

Technical Datasheet

Technical Datasheet		ASW08kH-T3-DG	ASW10kH-T3-DG	ASW12kH-T3-DG	ASW15kH-T3-DG	
PV input	Max. PV array power	12000 Wp	15000 Wp	18000 Wp	22500 Wp	
	Max. input voltage	1100 V ¹				
	MPP voltage range / rated input voltage	150 V - 950 V / 630 V				
	Min. input voltage / start voltage	60 V / 180 V				
	No. of independent MPPT trackers / strings per MPPT input	3 / 1				
	Max. input current / Max. power per MPP tracker	16 A / 10000 W				
	Max. short-circuit current per MPP tracker	24 A				
Battery input	Battery voltage range	120 V - 600 V ¹				
	Max. charging power from PV and grid	12000 W			15000 W	
	Max. charging power from grid	8000 W	10000 W	12000 W	15000 W	
	Max. discharge power	8000 W	10000 W	12000 W	15000 W	
	Max. charge / discharge current	50 A ¹				
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	16000 W	20000 W	24000 W	24000 W	
	Max. input current from grid	23.2 A	29.0 A	34.8 A	34.8 A	
AC output	AC voltage range / Nominal AC voltage	270V - 480V, 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 Hz - 55 Hz / 55 Hz - 65 Hz				
	Rated apparent power	8000 VA	10000 VA	12000 VA	15000 VA	
	Max. apparent power	8000 VA	10000 VA	12000 VA	15000 VA	
	Rated grid output current (@400 V)	11.6 A	14.5 A	17.4 A	21.7 A	
	Max. grid output current(@400 V)	12.8 A	16.0 A	19.2 A	23.9 A	
	Power factor at rated power / adjustable displacement	1 / 0.8 leading - 0.8 lagging				
	Harmonics THDi	< 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	8000 VA	10000 VA	12000 VA	23.9 A	
	Rated current (@400 V)	11.6 A	14.5 A	17.4 A	21.7 A	
	Max. current (@400 V, continuous on-grid / off-grid)	23.2 A / 11.6 A	29.0 A / 14.5 A	34.8 A / 17.4 A	34.8 A	21.7 A
	Max. power on each phase(@400 V, continuous on-grid / off-grid)	5333 W / 2667 W	6667 W / 3333 W	8000 W / 4000 W	8000 W	5000 W
	Peak output apparent power(@400 V, continuous on-grid / off-grid up to 10s)	16000 VA / 16000 VA	20000 VA / 20000 VA	24000 VA / 24000 VA	24000 VA	24000 VA
	Max. switch time	< 10 ms				
	Output THDv (@ Linear load)	2 %				
Generator side	Max. input apparent power	12000 VA	15000 VA	18000 VA	18000 VA	
	Max. charging power of battery	8000 W	10000 W	12000 W	15000 W	
	Rated AC voltage	3/N/PE, 220 / 380 V; 230 V / 400 V; 240 V / 415 V				
	Rated AC frequency	50 Hz / 60 Hz				
Efficiency	MPPT efficiency	99.9 %				
	European 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	●				
	Arc fault circuit interrupter (AFCI)	○			●	
General data	Dimensions (W / D / H)	625 / 241 / 465 mm			625 / 245 / 465 mm	
	Weight	29.5 kg			30.0 kg	
	Operating temperature range	-25 °C ~ 60 °C				
	Cooling concept	Natural convection			Smart cooling	
	Degree of protection (as per IEC 60529)	IP66				
	Relative humidity	100 %				
	Max. operating altitude	4000 m				
Features	HMI	LED, App				
	BMS interface	CAN				
	Smart meter interface	RS485				
	Communication interfaces	Dongle: Wi-Fi (2.4 GHz) / LAN (100 Mbps) Inverter: RS485 (ModBus RTU), LAN (100 Mbps, ModBus TCP only)				
	Digital output (dry contact) / No. of outputs	● / 2				
	Digital input (dry contact) / No. of inputs	● / 4				
	Integrated power control / export power control	● / ●				
	Certificates (more available upon request) ³	AS/NZS 4777.2, TOR Stromerzeugungsanlagen Typ A, C10/11, TR 3.3.1, FD C11-519-11, EN 50549-1, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, VDE-AR-N 4105, IEC 60068-2-x, IEC 61683, IEC 61727, IEC 62116, IEC 63027, NTS Type A, RD 647, UNE 217001, UNE 217002, NA/EEA-NE7, G99-1, PORTARIA N° 140			IEC 61683, IEC 61727, IEC 62116, IEC 63027, EN 50549, Ord 208, PL NC RfG, PTPiREE	

● standard features / ○ optional features / - not available

¹ When connecting to Solplanet's Ai-HB G2 Series batteries (with only 5 kWh, i.e. two modules), limitations as below apply:

1. The maximum open circuit voltage of PV shall not exceed 750 V;

2. The battery nominal voltage range is reduced to 102.4 V for the particular operation;

3. The maximum charging and discharging current depends on the operating point and is within the range greater than 36 A, less than 50 A.

² Please consult local sales regarding supporting symmetric or asymmetric parallel.

³ Please consult local sales regarding the certification availability.

