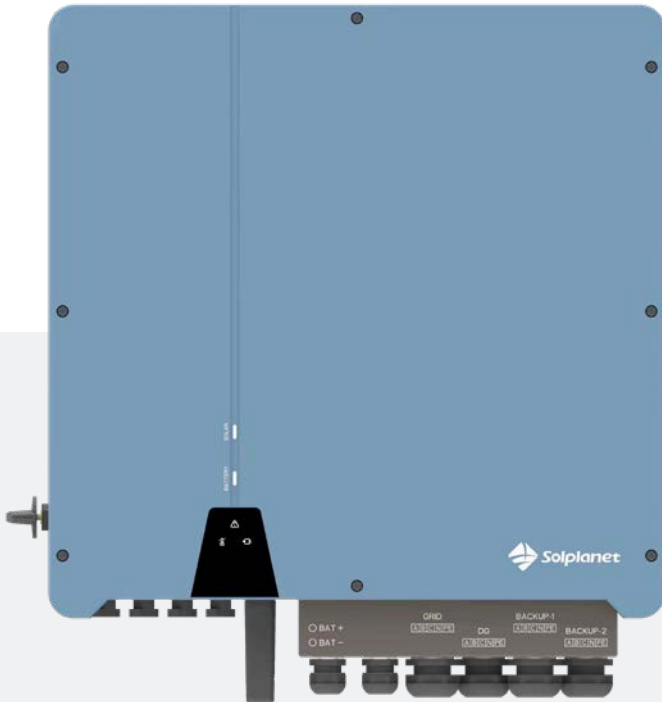


Three phase hybrid inverters 8 to 12 kW

# Three phase hybrid inverters



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		
	No. of independent MPPT trackers / strings per MPPT input	2 / (1/1)		
	Max. input current per MPP tracker	13 A		
	Max. short-circuit current per MPP tracker	25A		
Battery input	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		
	Rated. charging current / discharging current	40 A / 40 A		
AC output	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		
	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	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
	Max. input current from grid	25.5 A	31.8 A	38.2 A
EPS output	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)		
Features	User interface	LED & App		
	Communication with BMS	RS485 / CAN		
	Communication with meter	RS485		
	Communication with portal	WIFI stick		
	Integrated power control / Zero export control	● / ●		
Certificates	Grid	EN 50549-1,RfG 3		
	Safety	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

Version: Oct 2022



## Technical DataSheet

ASW08kH-T1

ASW10kH-T1

ASW12kH-T1

	ASW08kH-T1	ASW10kH-T1	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	● / ●	
Certif- icates	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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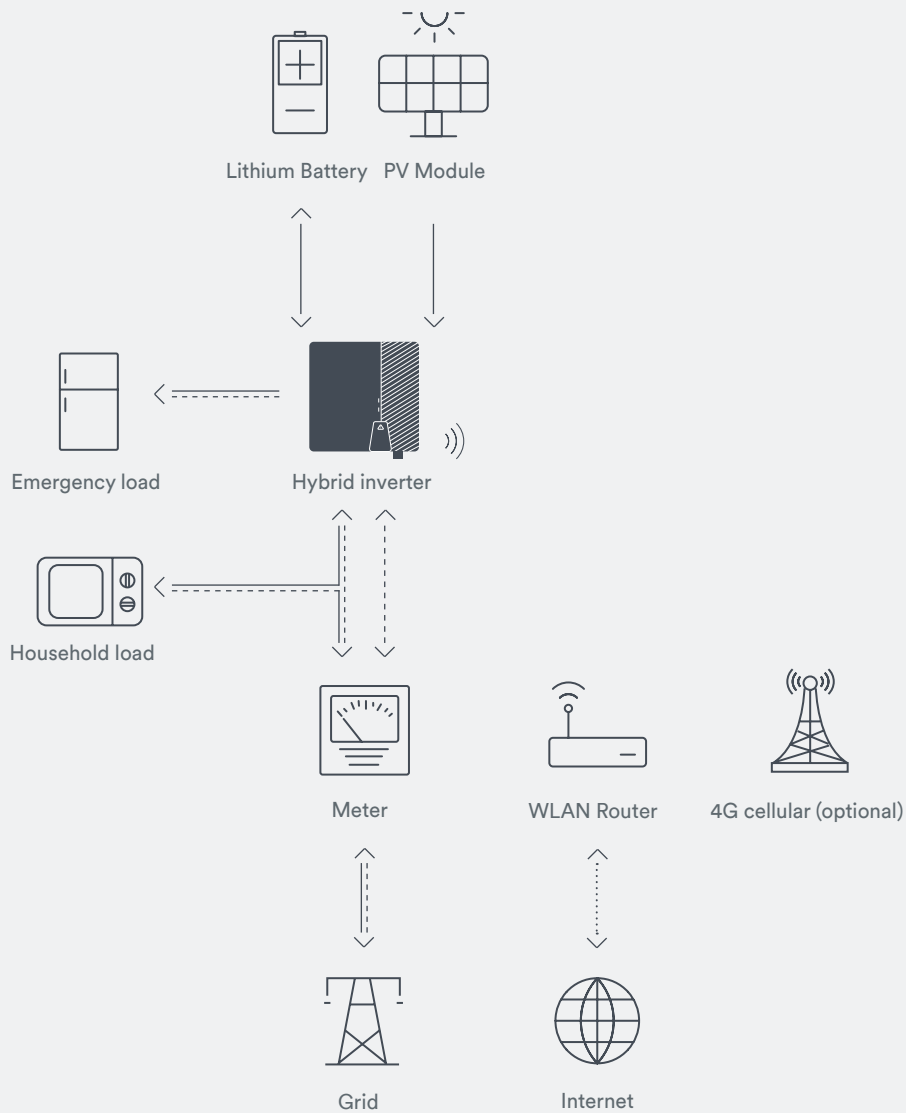
# True hybrid

## What makes Solplanet's hybrid inverters stand out?

- ✓ 2 backup outputs (EPS) including one with saving mode
- ✓ Three-phase backup (EPS) outputs  
(but also, only one or two phases can be connected)
- ✓ No need for additional and costly components such as an ATS  
(stand-by system)
- ✓ No need for additional two-way smart meters  
(current transformers included)
- ✓ Can operate without batteries  
(as a standard inverter with the possibility of expansion)



# Wi-Fi connection & monitor set up for hybrid inverters



- DC ———
- AC - - - - -
- Internet .....
- WLAN - . - . -
- RS485 - - - - -
- Wireless )))

