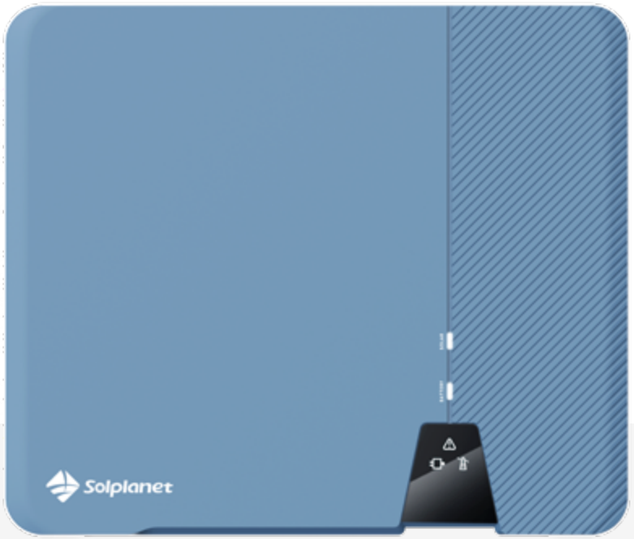
Single phase hybrid inverters 3 to 5 kW

Hybrid single phase inverters



Models:
ASW3000H-S
ASW3680H-S
ASW4000H-S
ASW5000H-S

reddot winner 2021

Easy-to-install

- Quick installation with standard tools
- Easy connection and monitoring with Solplanet App

Reliable

- Galvanically isolated
- Low voltage battery
- Safe and reliable
- Smart energy management and emergency power supply

User-friendly

- Discrete design for both indoor or outdoor use (IP65)
- Quick Wi-Fi connection & user-friendly app

Technical Data Sheet		ASW3000H-S	ASW3680H-S	ASW4000H-S	ASW5000H-S
Input (DC)	Max PV array power	5500 Wp STC	6180 Wp STC	6500 Wp STC	7500 Wp STC
	Max input voltage	550 V			
	MPP voltage range / rated input voltage	100 V to 530 V / 380 V			
	Min input voltage / start voltage	100 V/ 125 V			
	Number of independent MPP trackers / strings per MPP input	2 / (1/1)			
	Max input current / per MPP tracker	12 A			
Battery input (DC)	Nominal battery voltage	48 V			
	Battery voltage range	40 V to 60 V			
	Max charging power	2500 W			
	Max discharging power	2500 W			
	Max charging current / Max discharging current	50 A			
AC output (on-grid)	AC nominal power	3000 W	3680 W	4000 W	5000 W
	Max AC apparent power to Utility Grid	3000 VA	3680 VA	4000 VA	5000 VA*1
	AC voltage range / Nominal AC voltage	180 V to 280 V / 230 V			
	Rated AC grid frequency	50 Hz / 60 Hz			
	AC grid frequency / range	±5Hz			
	Max AC current	13.6 A	16 A	18.2 A	22.7 A*2
	Power factor at rated power / adjustable displacement	> 0.99 / 0.8 leading ... 0.8 lagging			
	Harmonics THDi (@ Nominal power)	< 3%			
EPS output	Max output apparent power	2500 VA			
	Peak output apparent power	3500 VA, 10s			
	Nominal output voltage	230 V			
	Nominal output frequency	50 Hz / 60 Hz			
	Max output current	12 A			
	Max switch time	100 ms			
	Output THDv (@ Linear load)	<3%			
Efficiency	MPPT efficiency	99.90%			
	Euro efficiency / Max efficiency	97% / 97.6%			
	Max battery to load efficiency	94.70%			
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 / short circuit current protection	● / ●			
	AC over voltage protection	●			
	Protection class (as per IEC 62109-1) / overvoltage category (as per IEC 62109-1)	I / AC: III; DC: II			
General data	Dimensions (W / H / D)	494 / 420 / 195 mm			
	Device weight	21.5 kg			
	Operating temperature range	-25 °C ... +60 °C			
	Noise emissions (typical)	21 dB(A)			
	Standby consumption	< 10 W			
	Topology	Isolated			
	Cooling concept	Natural convection			
	Degree of protection (as per IEC 60529)	IP65			
	Climatic category (according to IEC 60721-3-4)	4K4H			
	Max permissible value for relative humidity (non-condensing)	100.00%			
	Max operating altitude	4000m (>3000m power derating)			
Features	User interface	LED & App			
	Communication with BMS	RS485 / CAN			
	Communication with meter	RS485			
	Communication with portal	WIFI			
	Other communication	DRM			
	Integrated power control / Zero export control	● / ●			

● Standard features / ○ optional features / – not available *1 For VDE-AR-N4105,Smax=4600VA *2 For AS/NZS4777.2:2015,Iac max=21.7A

Connect & monitor

Photo by Artem Podrez

Smart cloud-based monitoring & communication systems

CLOUD & APP

AISWEI Cloud and App

COM STICK SERIES

Wi-Fi Stick
4G Stick

AICOM SERIES

AiCom
AiCom Wi-Fi

Smart cloud-based monitoring system

Cloud & App

PV Plant monitoring plays an important role in our approach to revolutionize access to solar energy. It saves you time and money by reducing PV plant downtime. Your energy generation and consumption are presented in simple and easy to read graphs for complete plant management.

Real time and historical data are readily available via our cloud-based monitoring portal, allowing you to compare your current performance to past results and projected goals. AISWEI Cloud, our new online monitoring portal, is perfect for home owners, business owners and PV developers who want to monitor their PV Plants from anywhere in the world.

Easy-to-install

- Easy to create PV plant by scanning QR code (app)
- Locate your PV plant on the map (app)
- Available as Android and iOS apps + web browser

Reliable

- Cloud-based monitoring system
- Centralized management of all plant data

User-friendly

- Key system data on one page for easy viewing
- Easy and convenient performance reporting
- Rapid event and yield report by email

To download the app search for “AISWEI” or simply scan the QR codes:

Download on the App Store

GET IT ON Google Play

Wireless & broadband cellular network communication module

Wi-Fi / 4G Stick

The Wi-Fi stick enables you to connect and monitor the selected inverters via the AISWEI cloud and App. Simply connect the Wi-Fi stick to the inverter, open up the AISWEI app and connect to internet.

Easy-to-install

- Plug and play design, easy-to-install
- Supports monitoring for up to 5 devices per stick

Reliable

- IP65 protection class
- High operating temperature range
- Automatic data upload once communication reestablished

User-friendly

- Automatic time synchronisation
- Minimum 7 days of secure data storage function
- Supports all mainstream WLAN & broadband cellular network protocols

Technical Data Sheet

		Wi-Fi Stick	4G Stick
Technical Data	Supported device	Solplanet inverters	
	Number of devices supported	5 units	20 unit
	Indicators	LED x 2 (Network / Inv.-Comm)	
	Configuration method	App	N/A
	Input voltage	7 ... 9 Vdc	
Com. interface	RS485	1 input	
	WLAN	2.4GHz 802.11 b/g/n	FDD-LTE: B1,B3, B5, B7,B8,B20 TDD-LTE: B40 UMTS: B1, B8 GSM/GPRS/EDGE: 900/1800MHz
Power Supply	Input voltage	7 ... 9 Vdc	
	Average power consumption	2 W	5 W
Operation environment	Operation temperature range	-30°C ... +70°C	
	Max permissible relative humidity (non-condensing)	100%	
	Max operation altitude	3000 m	
	Protection class	IP 65	
Basic data	Dimension (W/H/D)	51 / 112 / 27 mm	
	Mounting method	Plug and play	
	Certificate	CE	