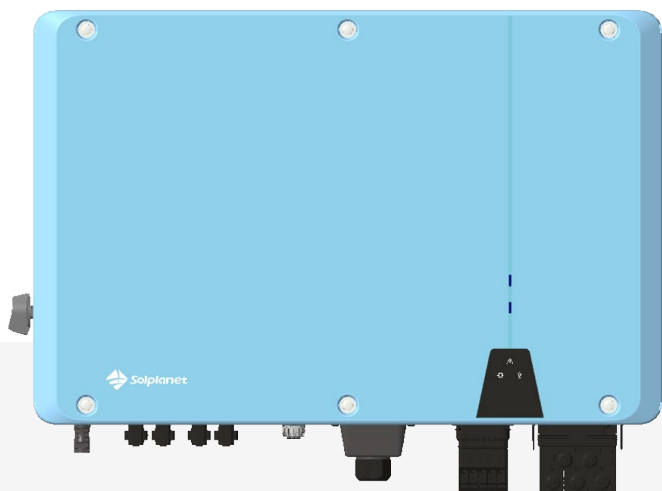


Three phase hybrid inverters 15 to 30 kW

ASW TH Series



Models:

ASW015K-TH

ASW020K-TH

ASW025K-TH

ASW29.9K-TH

ASW030K-TH



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 200 % PV array oversizing for higher yields
- ShadeSol - improved generation under non-ideal conditions
- UPS level switching time < 10 ms
- IP66 rated design for outdoor use
- DC SPD surge protection



User-friendly

- 4 independent MPPTs for flexible and higher kWp PV array design
- Setup, commissioning and monitoring via the Solplanet app
- Intelligent work modes and customisable battery management
- Max. 40 A input current per MPPT, ideal for bifacial and large area PV modules
- Max. 100A charging/discharging current

Technical Datasheet

Technical Datasheet		ASW015K-TH		ASW020K-TH		ASW025K-TH		ASW29.9K-TH		ASW030K-TH	
PV input	Max. PV array power	30000 Wp		40000 Wp		50000 Wp		59800 Wp		60000 Wp	
	Max. input voltage	1000 V									
	MPP voltage range / rated input voltage	150 V to 950 V / 630 V									
	Min. input voltage / start voltage	95 V / 180 V									
	No. of independent MPPT trackers / strings per MPPT input	4 / 1				4 / 2					
	Max. input current / Max. power per MPP tracker	20 A	15000 W	20 A	15000 W	40 A	25000 W	40 A	25000 W	40 A	25000 W
	Max. short-circuit current per MPP tracker	25 A				50 A					
Battery input	Battery voltage range	120 V to 800 V									
	Max. charging / discharging power	30000 W / 15000 W		40000 W / 20000 W		50000 W / 25000 W		59800 W / 29900 W		60000 W / 30000 W	
	Max. charging current / Max. discharging current	50 A				2 * 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	30000 W		40000 W		50000 W		50000 W		50000 W	
	Max. input current from grid	43.5 A		58.0 A		72.5 A		72.5 A		72.5 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	15000 VA		20000 VA		25000 VA		29900 VA		30000 VA	
	Max. apparent power	15000 VA		20000 VA		25000 VA		29900 VA		30000 VA	
	Rated grid output current	21.7 A		29.0 A		36.2 A		43.3 A		43.4 A	
	Max. grid output current	23.9 A		31.9 A		39.8 A		47.6 A		47.8 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	15000 VA		20000 VA		25000 VA		29900 VA		30000 VA	
	Max. apparent power(@400 V, continuous on-grid/off-grid)	16500 VA		22000 VA		27500 VA		32890 VA		33000 VA	
	Rated current	21.7 A		29.0 A		36.2 A		43.3 A		43.4 A	
	Max. current (@400 V, continuous on-grid / off-grid)	23.9 A		31.9 A		39.8 A		47.6 A		47.8 A	
	Max. power on each phase (@400 V, continuous on-grid / off-grid)	5500 W		7333 W		9166 W		10963 W		11000 W	
	Peak output apparent power(off-grid up to 10s)	30000 VA		40000 VA		45000 VA		45000 VA		45000 VA	
	Max. switch time	< 10 ms									
	Output THDv (@ Linear load)	2 %									
Generator side	Max. input apparent power	18000 VA		24000 VA		30000 VA		35880 VA		36000 VA	
	Max. charging power of battery	15000 W		20000 W		25000 W		29900 W		30000 W	
	Rated AC voltage	3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V									
	Rated AC frequency	50 Hz / 60 Hz									
Effi- ciency	MPPT efficiency	99.9 %									
	Euro efficiency / Max. efficiency	97.2 % / 98.0 %				97.9 % / 98.4 %					

● standard features ○ optional features - not available
Version: August 2024



Technical Datasheet

Technical Datasheet		ASW015K-TH	ASW020K-TH	ASW025K-TH	ASW29.9K-TH	ASW030K-TH
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)	768 mm / 490 mm / 285 mm				
	Weight	52.0 kg	58.0 kg			
	Operating temperature range	-30 °C ... +60 °C				
	Cooling concept	Smart cooling				
	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	● / 3				
	Digital input (dry contact) / No. of inputs	● / 7				
	Integrated power control / export power control	● / ●				

● standard features ○ optional features - not available
Version:August 2024



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Preliminary

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