

AEG

HYBRID INVERTER AS-ICH08-8/10/12K-3 SERIES



CHARACTERISTICS

Power classes: 8 kW - 12 kW
Three-phase, 3 MPPT, High Voltage
Matte black housing,
Product Name Code: AS-ICH08-8K-3/HV |
AS-ICH08-10K-3/HV | AS-ICH08-12K-3/HV



**EXTRA PEACE OF MIND:
10 YEARS PRODUCT
WARRANTY**

ADVANTAGES

EASILY INSTALLED

- 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
- Available with or without asymmetrical power output
- UPS level switching time < 10 ms
- IP66 rated design for outdoor use

FLEXIBLE

- 3 independent MPPTs for flexible and higher kWp PV array design
- Intelligent work modes and customisable battery management for DOD / Time of Use / Power setting
- Max. 16 A input current, ideal for bifacial and large PV modules



Technical Datasheet

AS-ICH08-8k-3/HV

AS-ICH08-10k-3/HV

AS-ICH08-12k-3/HV

PV input	Max. PV array power	12000 Wp		15000 Wp		18000 Wp	
	Max. input voltage	1100 V					
	MPP voltage range / rated input voltage	200 V to 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	16 A	10000 W	16 A	10000 W
Battery input	Max. short-circuit current per MPP tracker	24 A					
	Battery voltage range	120 V to 600 V					
	Max. charging / discharging power	8000 W		10000 W		12000 W	
	Max. charging current / Max. discharging current	30 A					
AC input	Battery type	LiFePO4					
	Rated grid voltage	3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V					
	Rated grid frequency	50 Hz / 60 Hz					
	Max. input power from grid	16000 W		20000 W		24000 W	
	Max. input current from grid	23.2 A		29.0 A		34.8 A	
AC output	AC voltage range / Nominal AC voltage	270V to 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 ~ 55 Hz / 55 ~ 65 Hz					
	Rated apparent power	8000 VA		10000 VA		12000 VA	
	Max. apparent power	8000 VA		10000 VA		12000 VA	
	Rated grid output current (@400 V)	11.6 A		14.5 A		17.4 A	
	Max. grid output current(@400 V)	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	8000 VA		10000 VA		12000 VA	
	Rated current (@400 V)	11.6 A		14.5 A		17.4 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
	Max. power on each phase(@400 V, continuous on-grid/off-grid)	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)	16000 VA	16000 VA	20000 VA	20000 VA	24000 VA	24000 VA
	Max. switch time	< 10 ms					
	Output THDv (@ Linear load)	2 %					
	Efficiency	MPPT efficiency	99.9 %				
Euro efficiency / Max. efficiency		97.2 % / 98.0 %			97.9 % / 98.4 %		
Safety protection	DC surge protection(Type II, according to EN/IEC 61643-11)	Available					
	Insulation resistance detection	Available					
	PV string input reverse polarity protection	Available					
	Battery input reverse polarity protection	Available					
	Ground fault monitoring	Available					
	Residual current monitoring unit	Available					
	AC short circuit protection	Available					
General data	Anti-islanding protection	Available					
	Power factor at rated power / adjustable displacement	1 / 0.8 leading to 0.8 lagging					
	Dimensions (W * H * D)	545 mm * 465 mm * 205 mm					
	Weight	26 kg					
	Operating temperature range	-25 °C ... +60 °C					
	Cooling concept	Natural convection					
	Noise emission	< 35 dB					
	Degree of protection (as per IEC 60529)	IP66					
	Max. relative humidity	100 %					
Features	Max. operating altitude	4000 m					
	User interface	LED & App					
	BMS interface	CAN					
	Smart meter interface	RS485					
	Internet communication interfaces	Wifi / LAN					
	Digital output (dry contact) / No. of outputs	Available/ 2					
Digital input (dry contact) / No. of inputs	Available/ 4						
Integrated power control / export power control	Available/ Available						

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