

AEG

HYBRID INVERTER

AS-ICH08-15/20/25/29.9/30K-4 SERIES



CHARACTERISTICS

Power classes: 15 kW - 30 kW
Three-phase, 4 MPPT, High Voltage
Matte black housing
Product Name Code: AS-ICH08-15K-4/HV
AS-ICH08-20K-4/HV | AS-ICH08-25K-4/HV |
AS-ICH08-29.9K-4/HV | AS-ICH08-30K-4/HV



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

ADVANTAGES

EASILY INSTALLED

- Quick & easy-to-install with basic tools
- Anti-theft design
- Intelligent operation modes and smart battery management

RELIABLE

- Up to 200 % PV array oversizing for higher yields
- Up to 100 A charge / discharge current
- UPS level switching time < 10 ms
- IP66 rated design for outdoor use
- DC SPD Type II surge protection
- String-level current monitoring

FLEXIBLE

- 4 independent MPPTs, Upto 40 A input per MPPT
- Intelligent work modes and smart battery management
- Optimal battery voltage range, 120-800 V
- Available with or without asymmetrical power output

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Technical Datasheet

AS-ICH08-15K-4/HV

AS-ICH08-20K-4/HV

AS-ICH08-25K-4/HV

AS-ICH08-29.9K-4/HV

AS-ICH08-30K-4/HV

	AS-ICH08-15K-4/HV	AS-ICH08-20K-4/HV	AS-ICH08-25K-4/HV	AS-ICH08-29.9K-4/HV	AS-ICH08-30K-4/HV	
PV input	Max. PV array power	30000 Wp	40000 Wp	50000 Wp	59800 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. charge power from PV and AC side	30000 W	40000 W	50000 W	59800 W	
	Max. charge power from AC side	15000 W	20000 W	25000 W	29900 W	
	Max. discharge power	15000 W	20000 W	25000 W	29900 W	
	Max. charge current / Max. discharge current	50 A		100 A		
	No. of independent battery inputs	1		2		
Battery type	LiFePO4					
AC input	Nominal AC voltage	3/N/PE, 220 V / 380 V 3/N/PE, 230 V / 400 V 3/N/PE, 240 V / 415 V				
	Rated grid frequency	50 Hz / 60 Hz				
	Max. input power from grid	30000 W	40000 W	50000 W	50000 W	
	Max. input current from grid	43.5 A	58.0 A	72.5 A	72.5 A	
AC output	Nominal AC voltage	3/N/PE, 220 V / 380 V 3/N/PE, 230 V / 400 V 3/N/PE, 240 V / 415 V				
	AC voltage range	270 V to 480 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	
	Max. apparent power	15000 VA	20000 VA	25000 VA	29900 VA	
	Rated grid output current(@400V)	21.7 A	29.0 A	36.2 A	43.3 A	
	Max. grid output current	23.9 A	31.9 A	39.8 A	47.6 A	
	Power factor at rated power / adjustable range	1 / 0.8 leading to 0.8 lagging				
	Harmonics THDi (@ Nominal power)	< 3 % (of nominal power)				
EPS output	Nominal AC voltage	3 / N / PE, 220 V / 380 V 3 / N / PE, 230 V / 400 V 3 / N / PE, 240 V / 415 V				
	Nominal output frequency	50 Hz/60 Hz				
	Rated apparent power	15000 VA	20000 VA	25000 VA	29900 VA	
	Max. apparent power (@400 V, continuous on-grid/off-grid)	16500 VA	22000 VA	27500 VA	32890 VA	
	Rated current(@400V)	21.7 A	29.0 A	36.2 A	43.3 A	
	Max. current (@400 V, continuous on-grid / off-grid)	23.9 A	31.9 A	39.8 A	47.6 A	
	Max. power on each phase (@400 V, continuous on-grid / off-grid)	5500 W	7333 W	9166 W	10963 W	
	Peak output apparent power(off-grid up to 10s)	30000 VA	40000 VA	45000 VA	45000 VA	
	Max. switch time	< 10 ms				
Output THDv (@ Linear load)	2 %					
Efficiency	MPPT efficiency	99.9 %				
	European efficiency / Max. efficiency	97.2 % / 98.0 %		97.9 % / 98.4 %		
Safety protection	DC / AC surge protection (Type II, according to EN/IEC 61643-11)	Available / Optional				
	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				
	Anti-islanding protection	Available				
General data	Supported grid types	TN-S, TN-C, TN-C-S, TT				
	Dimensions (W * H * D)	769 mm * 491 mm * 285 mm				
	Weight	52.0 kg		58.0 kg		
	Operating temperature range	-30 °C to +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				
	Communication interfaces	Dongle: WIFI (2.4 GHz) / LAN (100 Mbps) Inverter: RS485 (ModBus RTU, Sunspec RTU), LAN (100 Mbps, Modbus TCP only)				
	Digital output (dry contact) / No. of outputs	Available / 3				
	Digital input (dry contact) / No. of inputs	Available / 7				
Integrated power control / export power control	Available / Available					

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