

# AEG

HYBRID INVERTER

## AS-IRH08-3/3.6/4/5/6K-2 SERIES



### CHARACTERISTICS

Power classes: 3 kW - 6 kW  
Single-phase, Residential Hybrid  
Inverter, 2 MPPT Matte black housing,  
Product Name Code: AS-IRH08-3K-2 |  
AS-IRH08-3.6K-2 | AS-IRH08-4K-2 |  
AS-IRH08-5K-2 | AS-IRH08-6K-2

### ADVANTAGES

#### EASILY INSTALLED

- Quick & easy-to-install with basic tools
- Compact wall mount design

#### RELIABLE & FLEXIBLE

- Smart energy management
- UPS capability - power during blackouts
- IP66 rated design for outdoor use
- 2 independent MPPTs



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



Technical Datasheet

AS-IRH08-3k-2 AS-IRH08-3.6k-2 AS-IRH08-4k-2 AS-IRH08-5k-2 AS-IRH08-6k-2

		5500 Wp STC	6180 Wp STC	6500 Wp STC	7500 Wp STC	9000 Wp STC
PV Input	Max. PV array power					
	Max. input voltage	550 V				
	MPP voltage range / rated input voltage	40 V to 530 V / 380 V				
	Min. input voltage / start voltage	40 V / 50 V				
	No. of independent MPPT trackers / strings per MPPT input	2 / 1				
	Max. input current per MPP tracker	16 A				
	Max. short-circuit current per MPP tracker	20 A				
Battery Input	Nominal battery voltage	48 V				
	Battery voltage range	40 V to 60 V				
	Max. charging / discharging power	5000 W / 5000 W				
	Max. charging current / Max. discharging current	100 A / 100A				
	Battery type	LiFePO4				
	Compatible Battery	AS-BML08-51				
AC output	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	50 Hz±5Hz / 60 Hz±5Hz				
	Rated active power	3000 W	3680 W	4000 W	5000 W <sup>1</sup>	6000 W
	Rated apparent power	3000 VA	3680 VA	4000 VA	5000 VA <sup>1</sup>	6000 VA
	Max. apparent power	3000 VA	3680 VA	4000 VA	5000 VA <sup>1</sup>	6000 VA
	Rated grid output Current (@230V)	13.1 A	16 A	17.4 A	21.7 A	26.1 A
	Max. grid output current	13.6 A	16 A	18.2 A	22.7 A	27.3 A
	Harmonics THDi (@ Nominal power)	< 3%				
	AC input	Rated grid voltage	a.c. 230V			
Rated apparent power		6000 VA				
Max. input apparent power from grid		6000 VA				
Rated input current from grid		a.c. 26.1 A				
Max. input current from grid		a.c. 27.3 A				
EPS output	Nominal output voltage	230 V				
	Nominal output frequency	50 Hz / 60 Hz				
	Rated apparent power	5000 VA				
	Max. output apparent power	5000 VA				
	Peak output apparent power	7500 VA, 10s				
	Rated Current (@230V)	21.7A				
	Max. output current	21.7A				
	Max. switch time	≤ 10 ms				
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	Available				
	PV string- / Battery input reverse polarity protection	Available / Available				
	All-pole sensitive residual current monitoring unit	Available				
	Anti-islanding protection	Available				
	Ground fault protection	Available				
	AC output over current / short circuit current protection	Available / Available				
	AC over voltage protection	Available				
	Protection class (as per IEC 62109-1) / overvoltage category (as per IEC 62109-1)	I / 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)	483 * 455 * 193.5 mm				
	Device weight	25.1kg				
	Operating temperature range	-25 °C to +60 °C				
	Noise emissions (typical)	30 dB(A)				
	Standby consumption	< 10 W				
	Cooling concept	Natural convection				
	Degree of protection (as per IEC 60529)	IP66				
	Climatic category (according to IEC 60721-3-4)	4K4H				
	Max. permissible value for relative humidity (non-condensing)	100%				
	Max. operating altitude	4000m (>3000m power derating)				
	Features	User interface	LED & App			
Communication with BMS		CAN				
Communication with meter		RS485				
Communication with portal		WIFI stick / LAN				
Other communication		DRM				
Integrated power control / Zero export control		Available / Available				

Version: 2025.02.V1-EN

1. For VDE-AR-N4105, S<sub>max</sub>=S<sub>n</sub>=4600VA, P<sub>n</sub>=4600W

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