

# AEG

## GRID-TIED INVERTER AS-IR01-2 SERIES



AEG

■ Run ■ Alarm ■ Fault



### 3 kW TO 5 kW GRID-TIED SINGLE-PHASE INVERTER, 2 MPPT

AEG AS-IR01-2 inverters belong to a new generation of PV string inverters specifically developed for residential systems.



### COMPACT DESIGN AND EFFICIENCY FOR SMALL- AND MEDIUM-SIZE INSTALLATIONS

Compact size, light weight, low starting voltage and high conversion efficiency make of AS-IR01-2 an ideal choice for small- and medium size installations



### EASY OPERABILITY AND ALL-ROUND MONITORING

AEG AS-IR01-2 features a global, integrated monitoring and management systems supporting a wide range of portable devices for easy operability

### COMPREHENSIVELY CERTIFIED

AEG products and production facilities are compliant with the the latest standards to guarantee safety and reliability. Production facilities comply with ISO 9001, ISO 14001 and OHSAS 18001. AEG inverters are certified a.o. IEC 62109-1/2, EN 61000-6-2/3, VDE 0126-1-1, VDE-AR-N 4105, VDE0124, C10/11. The products are tested by independent, acknowledged institutions, among others by:



### YOUR ADVANTAGE AT A GLANCE

Wide voltage range for small & medium scale plants  
Compact size, easy operation, global monitoring  
Combining RS485 + WiFi  
Comprehensive certification range for the international markets  
10 years Product warranty (15/20 years optional)

More on: [www.aeg-industrialsolar.de](http://www.aeg-industrialsolar.de)



INPUT (DC)	3000	4000	4600	5000
Max. DC Input power (W)	3600	4800	5520	6000
Max. DC Input Voltage (V)	600	600	600	600
Starting Voltage / Min. Operation Voltage (V)	120/100	120/100	120/100	120/100
MPPT Operating Voltage Range (V)	120-550	120-550	120-550	120-550
Number of MPPT / String per MPPT	2 / 1	2 / 1	2 / 1	2 / 1
Max. DC Current (A) per MPPT x Nr. of MPPT	8 x 2	10 x 2	11 x 2	12 x 2
DC Switch	Yes			

### OUTPUT (AC)

Rated Output Power (W)	3000	3680	4200	4600
Max. AC Output Current (A)	14	16	18.3	20
Grid Voltage Range	230 / 180-277V			
Grid Frequency Range	50 Hz (44-55 Hz)			
Power Factor	-0.95 ~ +0.95 (adjustable)			
THDi	<3% (at rated power)			
AC Output	Single-phase (L, N, PE)			

### SYSTEM

Cooling	Natural cooling			
Max. Efficiency (%)	97.70	97.70	97.70	97.80
Euro-Efficiency (%)	96.70	96.70	96.70	96.80
MPPT Efficiency (%)	99.90			
Protection Rating	IP65			
Self-Consumption at Night (W)	<1			
Topology	Transformerless			
Operating Temperature	-25°C ~ +60°C (derate after 45°C)			
Relative Humidity	0 ~+95%, no condensation			
Protection	PV array insulation protection, PV array leakage current protection, Ground fault monitoring, Grid monitoring, Island protection, DC monitoring, Short current protection			

### MECHANICAL PARAMETERS

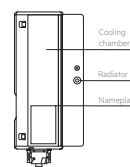
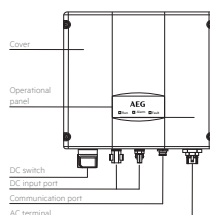
Dimensions (H x W x D, mm)	462 x 360 x 150
Weight (kg)	≤18
DC Terminal	BC03A, BC03B (PV-CF-S2, 5-6 [+]; PV-Cm-S2, 5-6 [-] ...; Helios H4 2.5 mm <sup>2</sup> )
Installation	Wall mounting
Grid Standards	DIN VDE 0126-1-1:2013; VDE-AR-N 4105:2011; DIN VDE V 0124-100:2012; C10/11
Safety certificates / EMC category	IEC 62109-1:2010; IEC 62109-2:2011; EN 61000-6-2:2005; EN 61000-6-3/A1:2011

### DISPLAY AND COMMUNICATION

Display	LED (Standard); LCD (Optional)
System Language	English, German, Dutch
Communication Mode	RS485 + WiFi (Standard), Ethernet (Optional)

### WARRANTIES

Product warranty	10 years (optional: 15/20 years)
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AS-IR01-(3000 ~ 5000)-2

### CONTACT US

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