

# 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. 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  
5+5\* years Product warranty (15/20 years optional)

(\*subject to country)

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



**INPUT (DC)**

Nominal DC Input Power (W)	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)*	125-550	125-550	125-550	125-550
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	Integrated			

\*Planning recommendation: if your AEG inverter has 2 MPPT or more, make sure to connect a balanced amount of solar PV panels to each MPPT to avoid inverter damage and electric risks. If in doubt, read the installation manual or contact the AEG Inverter Support Service.

**OUTPUT (AC)**

Rated Output Power (W)	3000	3680	4200	4600
Max. Apparent Power $SE_{max}$ (VA)	3182	3899	4450	4599
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
Safety certificates / EMC category / Grid Standards	EN 62109-1:2010, EN 62109-2:2011, EN 61000-6-3:2007+A1:2011, EN 61000-6-2:2005, VDE-AR-N 4105:2018, DIN VDE V 0124-100:20

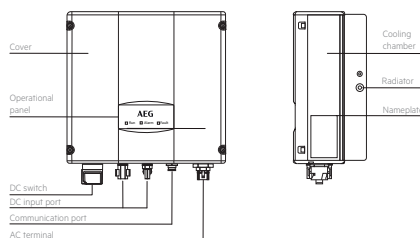
**DISPLAY AND COMMUNICATION**

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

**WARRANTY**

Product Warranty 5+5\* years (optional: 15/20 years)

\*Product warranty of 5+5 years (5 years basic warranty + 5 years additional warranty) available for: Netherlands, Belgium and Luxembourg. For the full Warranty Terms please visit [www.aeg-industrialsolar.de](http://www.aeg-industrialsolar.de). © Solar Solutions GmbH. Specifications in this datasheet are subject to change without notice. Code: AS-IR01-(3000-5000)-2 version 202108.V1.EN-EU. AEG is a registered trademark used under license from AB Electrolux (pub)



AS-IR01-(3000 - 5000)-2

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