



GRID-TIED INVERTER AS-IC01-2 SERIES



4kW TO 10 kW GRID-TIED THREE-PHASE INVERTER, 2 MPPT

AEG AS-IC01-2 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

AS-IC01-2 an ideal choice for medium size installations and allow extreme planning flexibility for your solar installation.



EASY OPERABILITY AND ALL-ROUND MONITORING

AEG AS-IC01-2 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 medium scale plants
- Compact size, easy operation, global monitoring
- Combining RS485 + WiFi
- Comprehensive certification range for the international markets
- 5 years Product warranty (10/15/20 years optional)

More on: www.aeg-industrialsolar.de



INPUT (DC)

Nominal DC input power (W)	4000	5000	6000	8000	10000
Max. DC Input power (W)	4200	5200	6300	8400	10400
Max. DC Input Voltage (V)	900	900	900	1000	1000
Starting Voltage	200	200	200	300	300
MPPT Operating Voltage Range (V)*	200-800	200-800	200-800	200-800	200-800
Operation Voltage	210 - 800	260 - 800	310-800	350-800	400-800
Number of MPPT / String per MPPT	2/ 1	2/ 1	2/ 1	2/ 1	2/ 1
Max. DC Current (A) per MPPT x Nr. of MPPT	10 x 2	10 x 2	10 x 2	12 x 2	12.5 x 2
Isc PV (A)	11 x 2	11 x 2	11 x 2	13 x 2	14 x 2
Maximum backflow current (inv. backflow to array) (A)	0	0	0	0	0
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)	4000	5000	6000	8000	10000
Max. Apparent Power SE_{max} (VA)	4002	5018	6017	8038	9789
Max. AC Output Current (A)	6.4	8.0	9.6	12.5	14
Maximum Output Overcurrent Protection (A)	12.7	15.8	19	24.7	27.7
Maximum Output Fault Current (A)	265A @ 34 ms				
AC inrush current	Less than 10A				
Voltage (V) / Frequency (Hz)	230~400 Vac, 50 Hz (47~51.5 Hz)				
Power Factor	-0.9 ~ +0.9 (adjustable)				
THDi	<3% (at rated power)				
AC Output	Three-phase (L1, L2, L3, N, PE) / (L1, L2, L3, PE)				

SYSTEM

Cooling	Natural cooling			Air cooling	
Max. Efficiency (%)	97.20	97.30	97.50	97.60	98.20
Euro-Efficiency (%)	97.00	97.00	97.00	97.00	97.60
MPPT Efficiency (%)	99.90				
Protection Rating	IP65				
Power Consumption at Night (W)	<1				
Topology and Isolation Mode	Non-isolated, transformerless				
Operating Temperature	-25°C ~ +60°C (derate after 45°C)				
Relative Humidity	4 ~100%, condensation				
Max. Altitude (m)	≤2000 (derate if the altitude >2000)				
Overvoltage Protection Class and Safety Class	AC:III, PV:II; Safety Class I				
Protection	Input overvoltage protection, input overcurrent protection, DC isolation monitoring, DC monitoring, grounding fault current monitoring, grid monitoring, island protection, short circuit protection, overheating protection				

MECHANICAL PARAMETERS

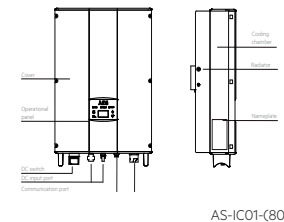
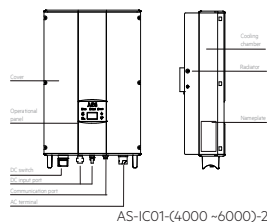
Dimensions (H x W x D, mm)	530 x 360 x 150	575 x 360 x 150
Weight (kg)	20	23
DC Terminal	BC03A, BC03B	
Installation	Wall-mounting	
Safety certificates / EMC category / Grid Standards	IEC 62109-1 (ed.1), IEC 62109-2 (ed.1), EN 62109-1:2010, EN 62109-2:2011, EN 61000-6-3:2007+A1:2011, EN 61000-6-2:2005; VDE-AR-N 4105:2018, DIN VDE V 0124-100:20, EN 50549-1:2019, C10/11:2019	
Noise (dB)	≤30	<50

DISPLAY AND COMMUNICATION

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

WARRANTY

Product warranty 5 years (optional: 10/15/20 years)
 For the full Warranty Terms please visit www.aeg-industrialsolar.de
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