

AEG

GRID-TIED INVERTER AS-IC01-2 SERIES



12kW TO 35 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 and commercial systems.



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

AS-IC01-2 an ideal choice for medium size installations and allows 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)

www.aeg-industrialsolar.de



INPUT (DC)

Nominal DC input power (W)	12000	15000	17000	20000	25000	30000	33000	35000
Max. DC Input power (W)	12500	15600	17500	20800	26000	31200	36000	38000
Max. DC Input Voltage (V)	1000	1000	1000	1000	1000	1000	1000	1000
Starting Voltage	200	200	200	300	300	300	300	300
MPPT Operating Voltage Range (V)*	180-800	180-800	180-800	280-800	280-800	280-800	280-800	280-800
Operation Voltage	350 - 800	400 - 800	400-800	450-800	480-800	480-800	520-800	550-800
Number of MPPT / String per MPPT	2/3	2/3	2/3	2/3	2/3	2/3	2/4	2/4
Max. DC Current (A) per MPPT x Nr. of MPPT	19 x 2	21 x 2	23 x 2	25 x 2	30 x 2	33 x 2	33 x 2	33 x 2
Isc PV (A)	21 x 2	23.5 x 2	25.5 x 2	27 x 2	33 x 2	36 x 2	36 x 2	36 x 2
Maximum backflow current (inv. backflow to array) (A)	0	0	0	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)	12000	15000	17000	20000	25000	30000	33000	35000
Max. Apparent Power SE_{max} (VA)	12085	15350	17083	20023	25000	30010	33011	34994
Max. AC Output Current (A)	19.3	24.1	27.3	32.0	40.0	48.0	48.0	48.0
Maximum Output Ovecurrent Protection (A)	38.2	47.7	54.0	63.3	79.1	95	95	95
Maximum Output Fault Current (A)	250A@41.6ms			472A@11.04ms				
AC inrush current	Less than 10A			Less than 20 A				
Voltage (V) / Frequency (Hz)	230~400 Vac, 50/60 Hz							
Power Factor	-0.8 ~ +0.8 (adjustable)							
THDi	<3% (at rated power)							
AC Output	Three-phase (L1, L2, L3, N, PE) / (L1, L2, L3, PE)							

SYSTEM

Cooling	Air cooling							
Max. Efficiency (%)	98.20	98.30	98.30	98.40	98.40	98.50	98.50	98.50
Euro-Efficiency (%)	97.60	97.80	97.80	98.00	98.00	98.00	98.10	98.10
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

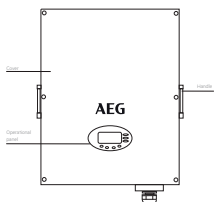
Dimensions (H x W x D, mm)	610 x 480 x 230	660 x 520 x 250
Weight (kg)	36	53
DC Terminal	BC03A, BC03B	
Installation	Wall-mounting	
Safety certificates / EMC category / Grid Standards	IEC 62109-1 (ed.1), IEC 62109-2 (ed.1), EN 62109-1:2010, EN 62109-2:2011, EN 61000-6-3:2007+A1:2011, EN 61000-6-2:2005; (12-17 kW) VDE-AR-N 4105:2018, DIN VDE V 0124-100:20; (20-35 kW) EN 50549-1:2019	
Noise (dB)	≤55	

DISPLAY AND COMMUNICATION

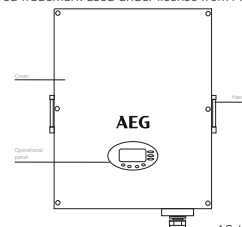
Display	LCD
System Language	English, German, Dutch
Communication	RS485 + WiFi (Standard), Ethernet (Optional)

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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AS-IC01-(12000 -17000)-2



AS-IC01-(20000 -35000)-2

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