

AEG

GRID-TIED INVERTER AS-IC01-2 SERIES



12kW TO 30 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. 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 medium scale plants
Compact size, easy operation, global monitoring
Combining RS485 + WiFi
Comprehensive certification range for the international markets
5 years Product warranty (15/20 years optional)

More on: www.aeg-industrialsolar.de



INPUT (DC)	12000	15000	17000	20000	25000	30000
Max. DC Input power (W)	12500	15600	17500	20800	26000	31200
Max. DC Input Voltage (V)	1000	1000	1000	1000	1000	1000
Starting Voltage	200	200	200	300	300	300
MPPT Operating Voltage Range (V)	180-800	180-800	180-800	280-800	280-800	280-800
Operation Voltage	350 - 800	400 - 800	400-800	450-800	480-800	480-800
Number of MPPT / String per MPPT	2/2	2 / 2	2 / 2	2 / 3	2 / 3	2 / 3
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
Isc PV (A)	21 x 2	23.5 x 2	25.5 x 2	27 x 2	33 x 2	36 x 2
Maximum backflow current (inv. backflow to array) (A)	0	0	0	0	0	0
DC switch	Integrated					

OUTPUT (AC)	12000	15000	17000	20000	25000	30000
Rated Output Power (W)	12000	15000	17000	20000	25000	30000
Max. AC Output Current (A)	19.3	24.1	27.3	32.0	40.0	48.0
Maximum Output Ovecurrent Protection (A)	38.2	47.7	54.0	63.3	79.1	95
Maximum Output Fault Current (A)	250A @ 41.6 ms			472A @ 110.4 ms		
AC inrush current	Less than 10A			Less than 20A		
Voltage (V) / Frequency (Hz)	320~460 Vac, 50 Hz (47~ 51.5 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	12000	15000	17000	20000	25000	30000
Cooling	Air cooling					
Max. Efficiency (%)	98.20	98.30	98.30	98.40	98.40	98.50
Euro-Efficiency (%)	97.60	97.80	97.80	98.00	98.00	98.00
MPPT Efficiency (%)	99.90					
Protection Rating	IP65					
Power Consumption at Night (W)	<1					
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	PV array insulation protection, PV array leakage current protection, Ground fault monitoring, Grid monitoring, Island protection, DC monitoring, Short current protection					

MECHANICAL PARAMETERS	12000	15000	17000	20000	25000	30000
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					
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					
Topology and Isolation Mode	Non-isolated; transformerless					
Noise (dB)	≤55					

DISPLAY AND COMMUNICATION	12000	15000	17000	20000	25000	30000
Display	LCD					
System Language	English, German, Dutch					
Communication Mode	RS485 + WiFi (Standard), Ethernet (Optional)					

WARRANTIES	12000	15000	17000	20000	25000	30000
Product warranty	5 years (optional: 10/15/20 years)					



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