

AS-IC01 SOLAR INVERTER

Grid-tied solar inverter
Three-phase, 2 MPPT
4 kW to 30 kW

Three-phase solar inverter
with compact design
for mid-size PV-installations



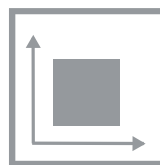
The AEG AS-IC01 inverter series belongs to a new generation of PV string inverters for grid-tied installations developed for mid-size / commercial installations. Thanks to its compact dimensions, the three-phase inverter AEG AS-IC01 ensures smooth installation. It is designed with the latest thermal simulation technologies to ensure a long service life.

AEG AS-IC01 features a global, integrated monitoring and management system, supporting different kinds of portable mobile devices. AEG AS-IC01 complies with the relevant industry standards VDE0126-1-1, VDE-AR-N4105, G83/2, C10/11, TF3.2.1, AS-4777/3100, EN61000-6-1:4, EN61000-3-2:3 / -11:12, IEC 62109-1:2010. The AEG AS-IC01 inverter is provided with a 10 years product warranty (which can be optionally extended to 15/20 years for comfort service over a longer timespan).

AS-IC01-4000-2	AC Output rated power	4 kW, 2 MPPT
AS-IC01-5000-2	AC Output rated power	5 kW, 2 MPPT
AS-IC01-6000-2	AC Output rated power	6 kW, 2 MPPT
AS-IC01-8000-2	AC Output rated power	8 kW, 2 MPPT
AS-IC01-10000-2	AC Output rated power	10 kW, 2 MPPT
AS-IC01-12000-2	AC Output rated power	12 kW, 2 MPPT
AS-IC01-15000-2	AC Output rated power	15 kW, 2 MPPT
AS-IC01-17000-2	AC Output rated power	17 kW, 2 MPPT
AS-IC01-20000-2	AC Output rated power	20 kW, 2 MPPT
AS-IC01-25000-2	AC Output rated power	25 kW, 2 MPPT
AS-IC01-30000-2	AC Output rated power	30 kW, 2 MPPT



Best fit for medium (commercial) installations



Compact size



2 MPPT for greater system design flexibility



Global monitoring

Distributeur in de Benelux van AEG zonnepanelen:



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AEG
perfekt in form und funktion

INPUT (DC)

Rated power voltage range (V)	210-800	260-800	300-800	400-800	450-800	350-800	400-800	400-800	450-800	480-800	480-800
Max. DC power (W)	4200	5200	6200	8300	10400	12500	15600	17500	20800	26000	31200
Max. DC Voltage (V)	900					1000					
Starting Voltage / Min. Operation Voltage (V)	220/180					200/180			300/280		
Starting Power (W)	150										
MPPT Operating Voltage Range (V)	200-800/580					180-800/610			280-800/610		
Number of MPPT / String per MPPT	2/2						2/3				
Max. DC Current (A) per MPPT x Nr. of MPPT	10 x 2	10 x 2	10 x 2	12 x 2	12 x 2	19 x 2	21 x 2	23 x 2	25 x 2	30 x 2	33 x 2
DC Switch	Integrated										

OUTPUT (AC)

Rated Power (W)	4000	5000	6000	8000	10000	12000	15000	17000	20000	25000	30000
Max. AC Current (A)	7	8.5	10	13	15	20	24	28	32	40	48
Rated AC Voltage and Range / Rated Grid Frequency and Range	3/PE, 230/400 V (320-460 V); 3/PE, 220/380 V (320-460 V) 50 Hz (47-51.5 Hz) /60 Hz (57-61.5 Hz)										
	According to VDE0126-1-1, VDE-AR-N4105, G83/2, C10/11, AS4777/3100					According to VDE0126-1-1, VDE-AR-N4105, G59/3, C10/11, AS4777/3100; 30000-2 model: also PEA					
Power Factor	-0.8 ~ +0.8 (Adjustable)										
THD	<3% (At Rated Power)										
AC Connection	Three-phase (L1, L2, L3, PE) or (L1, L2, L3, N, PE)										

SYSTEM

Cooling	Natural cooling					Smart cooling					
Max. Efficiency (%)	98.10	98.10	98.20	98.20	98.20	98.20	98.30	98.30	98.40	98.40	98.50
Euro-Efficiency (%)	97.50	97.60	97.70	97.70	97.70	97.60	97.80	97.80	98.00	98.00	98.00
MPPT Efficiency (%)	99.9										
Ingress Protection	IP65										
Consumption at Night (W)	<0.5W										
Topology	Transformerless										
Operating Temperature	-25°C ~ +60°C (derate after 45°C)										
Relative Humidity	0 ~+95%, no condensation										
Protection	DC insulation monitoring; DC monitoring; Grid monitoring Grounding fault monitoring; Island protection; Overvoltage and Short Circuit protection										
Noise	< 30 dB					< 50 dB					

MECHANICAL PARAMETERS

Dimensions (H x W x D, mm)	530 x 360 x 150	575 x 360 x 150	610 x 480 x 204	660 x 525 x 250
Weight (kg)	20	23	28	52
DC Terminal	BC03A,BC03B (PV-FT-CF-C-4-300-BU (-); PV-FT-CM-C-4-300-RD (+); Helios H4 4 mm ²)			
Installation	Wall mounting			

DISPLAY AND COMMUNICATION

Display	2.1" LCD display, support backlit display	3.5" LCD display, support backlit display
System Language	English, German, Dutch	
Communication Mode	RS485 + WiFi (Standard), Ethernet (Optional)	