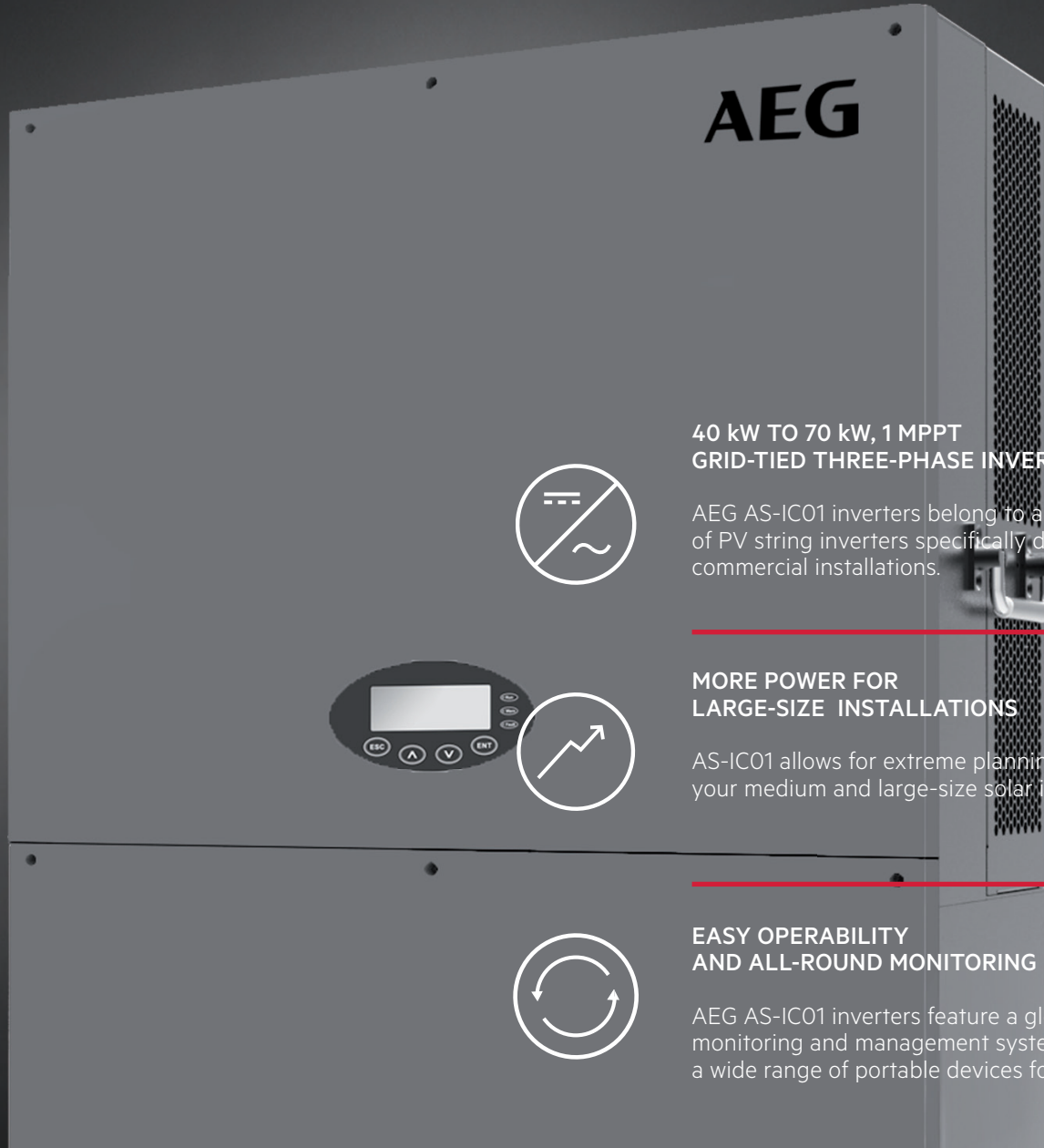




# GRID-TIED INVERTER AS-IC01 SERIES



## 40 kW TO 70 kW, 1 MPPT GRID-TIED THREE-PHASE INVERTER

AEG AS-IC01 inverters belong to a new generation of PV string inverters specifically developed for commercial installations.

## MORE POWER FOR LARGE-SIZE INSTALLATIONS

AS-IC01 allows for extreme planning flexibility for your medium and large-size solar installation.

## EASY OPERABILITY AND ALL-ROUND MONITORING

AEG AS-IC01 inverters feature 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- and large-scale plants  
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](http://www.aeg-industrialsolar.de)



**INPUT (DC)**

Nominal DC input power (W)	40000	50000	60000	70000
Max. DC Input power (W)	55000	66000	72000	77000
Max. DC Input Voltage (V)	1100	1100	1100	1100
Starting Voltage	200	200	200	300
MPPT Operating Voltage Range (V)	570/950	570/950	570/950	570/950
Operation Voltage	600-850	600-850	600-850	600-850
Number of MPPT / String per MPPT	1 / 10	1 / 12	1 / 14	1 / 14
Max. DC Current (A) per MPPT x Nr. of MPPT	74x 1	90 x 1	120 x 1	120 x 1
Isc PV (A)	81	99	132	132
Maximum backflow current (inv. backflow to array) (A)	0	0	0	0
DC switch	Integrated			

**OUTPUT (AC)**

Rated Output Power (W)	40000	50000	60000	66000
Max. AC Output Current (A)	63.5	72.5	96	96
Maximum Output Overcurrent Protection (A)	125.7	143.5	190	190
Maximum Output Fault Current (A)	1050A @ 4.75 ms			
AC inrush current	Less than 200A			
Voltage (V) / Frequency (Hz)	230~400 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)			

**SYSTEM**

Cooling	Air cooling
Max. Efficiency (%)	98.60
Euro-Efficiency (%)	98.20
MPPT Efficiency (%)	99.90
Protection Rating	IP65
Power Consumption at Night (W)	<1
Topology and Isolation Mode	Non-isolated
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)	810 x 645 x 235
Weight (kg)	52
DC Terminal	BC03A, BC03B
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
Noise (dB)	≤55

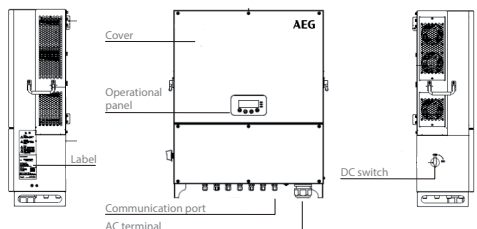
**DISPLAY AND COMMUNICATION**

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](http://www.aeg-industrialsolar.de)  
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AS-IC01-(40000-70000)

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