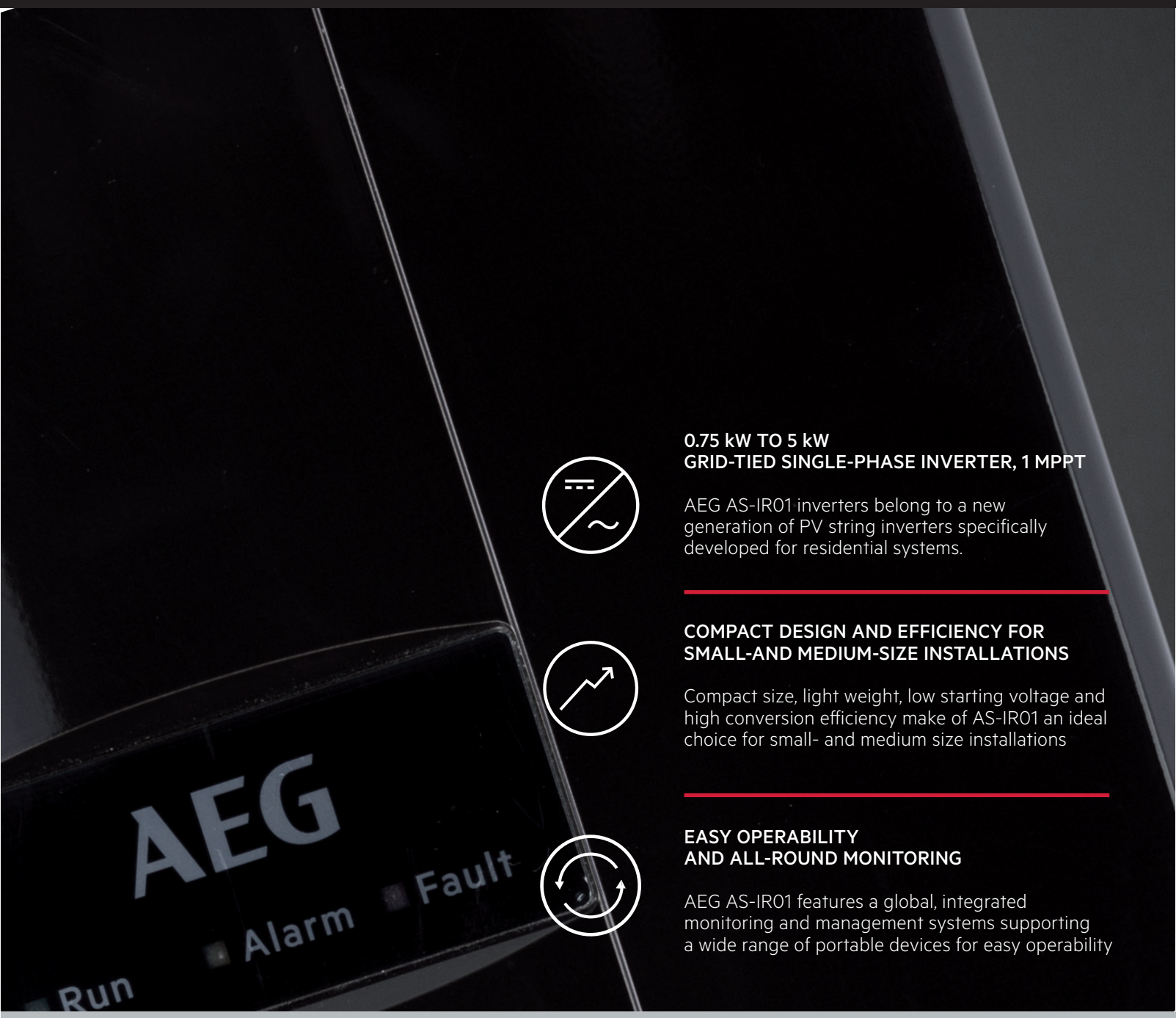
AEG

GRID-TIED INVERTER
AS-IR01 SERIES



0.75 kW TO 5 kW GRID-TIED SINGLE-PHASE INVERTER, 1 MPPT

AEG AS-IR01 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

Compact size, light weight, low starting voltage and high conversion efficiency make of AS-IR01 an ideal choice for small- and medium size installations

EASY OPERABILITY AND ALL-ROUND MONITORING

AEG AS-IR01 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. VDE-AR/N 4105, VDE0124, VDE 0126-1-1, IEC 62109-1/2, EN 61000-6-2/3, C10/11. The products are tested by independent, acknowledged institutions, among others by:

YOUR ADVANTAGE AT A GLANCE

Wide voltage range for small & medium scale plants
Compact size, easy operation, global monitoring
Combining RS485 + WiFi
Comprehensive certification range for the international markets
10 years Product warranty (15/20 years optional)

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SERIE	AS-IR01-750	AS-IR01-1000	AS-IR01-1500	AS-IR01-2000	AS-IR01-3000	AS-IR01-4000	AS-IR01-4600	AS-IR01-5000
INPUT (DC)								
Nominal DC Input Power (W)	750	1000	1500	2000	3000	4000	4600	5000
Max. DC Input Power (W)	900	1200	1700	2200	3300	4800	5520	6000
Max. DC Input Voltage (V)	400	450	450	450	500	600	600	600
Starting Voltage / Min. Operation Voltage (V)	60/50	80/60	80/60	80/60	80/60	120/100	120/100	120/100
MPPT Operating Voltage Range (V)	50-400	60-400	80-410	100-410	120-450	120-550	120-550	120-550
Number of MPPT / String per MPPT	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1/2	1/2	1/2
Max. DC Current (A) per MPPT x Nr. of MPPT	8 x 1	9 x 1	10 x 1	12 x 1	15 x 1	16 x 1	18 x 1	20 x 1
DC Switch	Integrated							
OUTPUT (AC)								
Rated Output Power (W)	750	1000	1500	2000	3000	3680	4200	4600
Max. AC Output Current (A)	3.6	4.5	6.5	9	13	16	18.3	20
Grid Voltage Range	230 / 180-277V							
Grid Frequency Range	50 Hz (44-55 Hz)							
Power Factor	≥0.99 (adjustable)							
THDi	<3% (at rated power)							
AC Output	Single-phase (L, N, PE)							
SYSTEM								
Cooling	Natural cooling							
Max. Efficiency (%)	96.80	96.90	97.20	97.20	97.30	97.70	97.70	97.80
Euro-Efficiency (%)	95.95	96.00	96.10	96.10	96.50	96.50	96.70	96.80
MPPT Efficiency (%)	99.90							
Protection Rating	IP65							
Self-Consumption at Night (W)	<1							
Topology	Transformerless							
Operating Temperature	-25°C ~ +60°C (derate after 45°C)							
Relative Humidity	0 ~+95%, no condensation							
Protection	PV array insulation protection, PV array leakage current protection, Ground fault monitoring, Grid monitoring, Island protection, DC monitoring, Short current protection							
MECHANICAL PARAMETERS								
Dimensions (H x W x D, mm)	280 x 300 x 138					405 x 360 x 150		
Weight (kg)	9.5					16		
DC Terminal	BC03A, BC03B (PV-CF-S2, 5-6 [+]...; PV-Cm-S2, 5-6 [-] ..., Helios H4 2.5 mm^2							
Installation	Wall mounting							
Grid Standards	VDE-AR-N 4105:2011; DIN VDE 0126-1-1:2013; 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							

DISPLAY AND COMMUNICATION

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

WARRANTY

Product warranty 10 years (optional: 10/15/20 years)

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Specifications in this datasheet are subject to change without notice.
Code: AS-IR01-(750-5000) version 201911.V1.EN-EU
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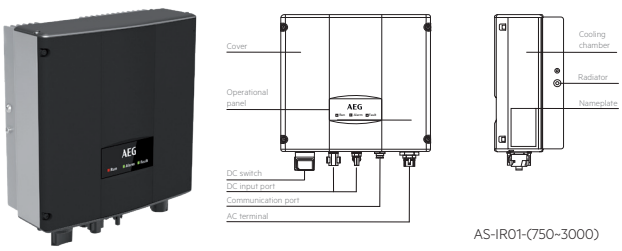
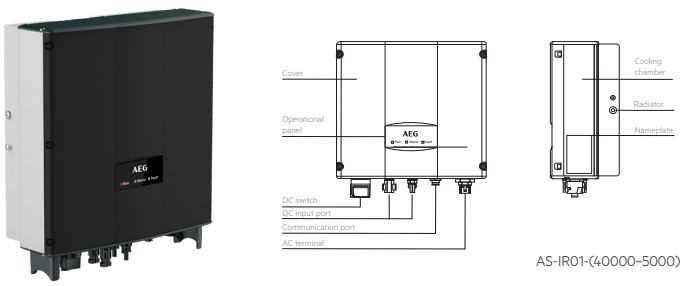


AS-IR01-(750~3000)



AS-IR01-(40000~5000)

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