

AS-IR01 RESIDENTIAL INVERTER

Grid-tied solar inverter
Single phase, 1 MPPT
0.75 kW to 5 kW

Single-phase inverter
with compact design
for small to medium PV-installations



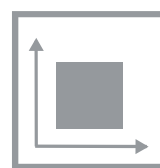
The AEG AS-IR01 inverter series belongs to a new generation of PV string inverters for grid-tied installations, specifically developed for residential systems. Thanks to its compact size and light weight, the single-phase inverter AEG AS-IR01 is easily installed and maintained. It is designed with the latest thermal simulation technologies to ensure a long service life. The wide voltage range, its low starting voltage and high conversion efficiency make of AEG AS-IR01 an ideal choice for small-to medium scale installations. AEG AS-IR01 features a global, integrated monitoring and management system, supporting different kinds of portable mobile devices. AEG AS-IR01 complies with the relevant industry standards 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-IR01 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-IR01-750	AC Output rated power 0.75 kW, 1 MPPT
AS-IR01-1000	AC Output rated power 1 kW, 1 MPPT
AS-IR01-1500	AC Output rated power 1.5 kW, 1 MPPT
AS-IR01-2000	AC Output rated power 2 kW, 1 MPPT
AS-IR01-3000	AC Output rated power 3 kW, 1 MPPT
AS-IR01-4000	AC Output rated power 4 kW, 1 MPPT
AS-IR01-4600	AC Output rated power 4.6 kW, 1 MPPT
AS-IR01-5000	AC Output rated power 5 kW, 1 MPPT



Best fit for small to medium installations



Compact size



Minimum System Voltage 50 V



Global monitoring

Distributeur in de Benelux van AEG zonnepanelen:



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AEG
perfekt in form und funktion

	AS-IR01-	750	1000	1500	2000	3000	4000	4600	5000	
INPUT (DC)										
Rated DC input power (W)		850	1060	1580	2100	3100	4000	4600	5000	
Max. DC input power (W)		900	1200	1700	2200	3200	4500	5000	5500	
Max. DC Voltage (V)		400	450			500	600	600	600	
Starting Voltage / Min. Operation Voltage (V)		65/60	80/60	100/80	120/100					
Starting Power (W)		30					50			
MPPT Operating Voltage Range (V)		60-350	80-400	100-410	120-410	120-450	120-550			
Number of MPPT / String per MPPT		1 / 1				1/2				
Max. DC Current (A) per MPPT x Nr. of MPPT		10 x 1	10 x 1	10 x 1	13 x 1	15 x 1	18 x 1	18 x 1	20 x 1	
DC Switch		Optional								
OUTPUT (AC)										
Rated Power (W)		750	1000	1500	2000	3000	3680	4200	4600	
Max. Power (W)		800	1150	1650	2100	3100	4000	4600	5000	
Max. AC Output Current (A)		3.6	4.5	6.5	9	13	19	21	23	
AC Voltage Range		230/180-277Vac According to VDE-AR-N4105, G83/2, C10/11, TF3.2.1, AS4777/3100								
Grid Frequency		50 Hz (44-55 Hz) / 60 Hz (54-65 Hz) According to VDE-AR-N4105, G83/2, C10/11, TF3.2.1, AS4777/3100								
Power Factor		≥0.99 (Adjustable)								
THD		<3% (At Rated Power)								
AC Connection		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								
Ingress Protection		IP65								
Consumption at Night		<1W								
Topology		Transformerless								
Operating Temperature		-25°C ~ +60°C (derate after 45°C)								
Relative Humidity		0 ~+95%, no condensation								
Protection		Overvoltage protection; DC insulation monitoring; DC Overcurrent protection monitoring; Grounding fault monitoring; Grid protection; Island protection; Overheating protection; Overvoltage and Short Circuit protection								
MECHANICAL PARAMETERS										
Dimensions (H x W x D, mm)		280 x 300 x 138					405 x 360 x 150			
Weight (kg)		9.5					15			
DC Terminal		MC4					BC03A, BC03B (PV-CF-S2, 5-6 (+)...; PV-CM-S2, 5-6 (-)...; Helios H4 2.5 mm ²)			
Installation		Wall mounting								
DISPLAY AND COMMUNICATION										
Display		LED Display (standard) / LCD (Optional)								
System Language		English, German, Dutch								
Communication Mode		RS485 + WiFi (Standard), Ethernet (Optional)								