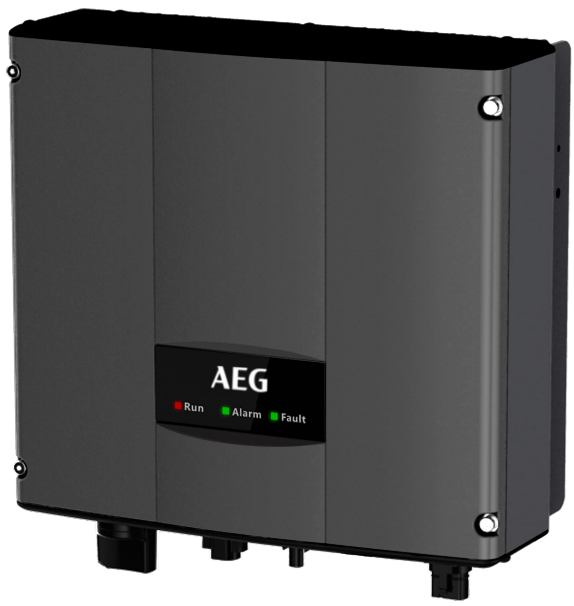
AS-IR01 RESIDENTIAL INVERTER

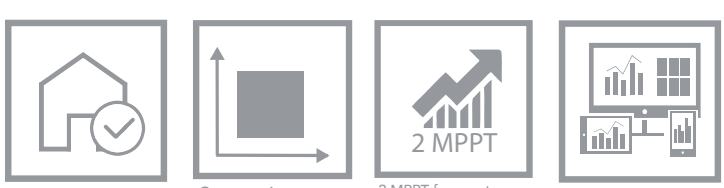


Grid-tied solar inverter
Single phase, 2 MPPT
3 kW to 5 kW

Single-phase inverter with two MPPT for greater planning flexibility of 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. With 2 MPPT it allows greater system design flexibility and higher levels of harvested energy. 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-IR01-3000-2	AC Output rated power	3 kW, 2 MPPT
AS-IR01-4000-2	AC Output rated power	4 kW, 2 MPPT
AS-IR01-4600-2	AC Output rated power	4.6 kW, 2 MPPT
AS-IR01-5000-2	AC Output rated power	5 kW, 2 MPPT



Best fit for small to medium installations | Compact size | 2 MPPT for greater system design flexibility | Global monitoring

Generalagent för AEG solenergiprodukter i Sverige

Falu Solenergi

Häradsvägen 4
SE-790 25 Linghed, Sweden
+46 (0)70 654 52 5
info@falusolenergi.se

www.falusolenergi.se

AEG
perfekt in form und funktion

	AS-IR01-	3000-2	4000-2	4600-2	5000-2
INPUT (DC)					
Rated DC input power (W)		???	4000	4600	5000
Max. DC input power (W)		3300	4500	5000	5500
Max. DC Voltage (V)		600	???	???	???
Starting Voltage / Min. Operation Voltage (V)		120/100			
Starting Power (W)		30	50		
MPPT Operating Voltage Range (V)		120-550			
Number of MPPT / String per MPPT		2/1			
Max. DC Current (A) per MPPT x Nr. of MPPT		10 x 2	10 x 2	11 x 2	12 x 2
DC Switch		Optional			
OUTPUT (AC)					
Rated Power (W)		???	3680	4200	4600
Max. Power (W)		3100	4000	46000	5000
Max. AC Output Current (A)		16	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 (%)		97.90	97.90	98.00	98.00
Euro-Efficiency (%)		96.80	96.80	96.80	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)		460 x 360 x 160			
Weight (kg)		17			
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)			