

# AEG

## GRID-TIED SOLAR INVERTERS

### AS-IR02-2 / SINGLE-PHASE GRID-TIED SOLAR INVERTER

#### Characteristics

Power classes: 3 kW - 6 kW  
Single phase, 2 MPPT  
Matte black housing, compact size  
RS485+WiFi

#### Product Name Code (PNC)

AS-IR02-3000/3600/4200/5000/6000-2

#### Extra peace of mind

Extensive certifications and Quality Control  
5 years product warranty  
(optionally extendable to 10/15/20 years)

#### Advantages

Compact size  
Sleek looks designed for residential installations  
Global monitoring



## AS-IR02-2 / SINGLE-PHASE GRID-TIED SOLAR INVERTER

### TECHNICAL SPECIFICATIONS

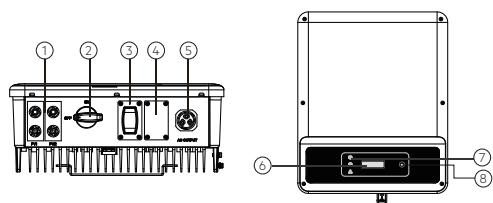
	AS-IR02-3000-2	AS-IR02-3600-2	AS-IR02-4200-2
PV String Input Data			
Max. DC Input Power (W)	3900	4680	5460
Max. DC Input Voltage (V)	600	600	600
MPPT Range (V)	80-550	80-550	80-550
Start-up Voltage (V)	80	80	80
Nominal DC Input Voltage (V)	360	360	360
Max. Input Current per MPPT (A)	11/11	11/11	11/11
Max. Short Current per MPPT (A)	13.8/13.8	13.8/13.8	13.8/13.8
Number of MPPT	2	2	2
Number of Strings per MPPT	1	1	1
AC Output Data			
Nominal Output Power (W)	3000*	3680*	4200*
Nominal Output Apparent Power (VA)	3000	3680	4200
Nominal Output Voltage (V)	220/230	220/230	220/230
Nominal AC Grid Frequency (Hz)	50/60	50/60	50/60
Max. Output Current (A)	13.6	16	19
Nominal Output Current (A)	13.6/13	16/15.6	19/18.2
Output Power Factor	-1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion	<3%	<3%	<3%
Efficiency			
Max. Efficiency	97.8%	97.8%	97.8%
European Efficiency	97.5%	97.5%	97.5%
Protection			
Residual Current Monitoring Unit	Integrated		
DC Reverse Polarity Protection	Integrated		
Anti-islanding Protection	Integrated		
AC Over Current Protection	Integrated		
AC Short Protection	Integrated		
AC Overvoltage Protection	Integrated		
DC Surge Arrester	Type III		
AC Surge Arrester	Type III		
General Data			
Operating Temperature Range (°C)	-25-60		
Relative Humidity	0-100%		
Operating Altitude (m)	+4000		
Cooling	Natural Convection		
User Interface	LCD & LED		
Communication	WiFi (optional: RS485)		
Weight (kg)	13		
Size (Width*Height*Depth mm)	354*433*147		
Protection Degree	IP65		
Night Self Consumption (W)	<1		
Topology	Transformerless		
Certifications & Standards			
Grid Regulation & Safety Regulation	Visit <a href="http://www.aeg-industrialsolar.de">www.aeg-industrialsolar.de</a> for more information		

	AS-IR02-5000-2	AS-IR02-6000-2
PV String Input Data		
Max. DC Input Power (W)	6500	7200
Max. DC Input Voltage (V)	600	600
MPPT Range (V)	80-550	80-550
Start-up Voltage (V)	80	80
Nominal DC Input Voltage (V)	360	360
Max. Input Current per MPPT (A)	11/11	11/11
Max. Short Current per MPPT (A)	13.8/13.8	13.8/13.8
Number of MPPT	2	2
Number of Strings per MPPT	1	1
AC Output Data		
Nominal Output Power (W)	5000*	6000*
Nominal Output Apparent Power (VA) [1]	5000	6000
Nominal Output Voltage (V)	220/230	220/230
Nominal AC Grid Frequency (Hz)	50/60	50/60
Max. Output Current (A)	22.8	27.3
Nominal Output Current (A)	22.8/21.7	27.3/26.1
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)	
Max. Total Harmonic Distortion	<3%	<3%
Efficiency		
Max. Efficiency	97.8%	97.8%
European Efficiency	97.5%	97.5%
Protection		
Residual Current Monitoring Unit	Integrated	
DC Reverse Polarity Protection	Integrated	
Anti-islanding Protection	Integrated	
AC Over Current Protection	Integrated	
AC Short Protection	Integrated	
AC Overvoltage Protection	Integrated	
DC Surge Arrester	Type III	
AC Surge Arrester	Type III	
General Data		
Operating Temperature Range (°C)	-25-60	
Relative Humidity	0-100%	
Operating Altitude (m)	+4000	
Cooling	Natural Convection	
User Interface	LCD & LED	
Communication	WiFi (optional: RS485)	
Weight (kg)	13	
Size (Width*Height*Depth mm)	354*433*147	
Ingress Protection Rating	IP65	
Night Power Consumption (W)	<1	
Topology	Transformerless	
Certifications & Standards		
Grid Regulation & Safety Regulation	Visit <a href="http://www.aeg-industrialsolar.de">www.aeg-industrialsolar.de</a> for more information	

\*For CEI 0-21 Nominal Output Power AS-IR02-3000-2 is 2700 , AS-IR02-3600-2 is 3350, AS-IR02-4200-2 is 3800 , AS-IR02-5000-2 is 4540, AS-IR02-6000-2 is 5450. Technical specifications are subject to change without notice. For the latest datasheet, visit [www.aeg-industrialsolar.de](http://www.aeg-industrialsolar.de)

### TECHNICAL DRAWINGS

AS-IR02-3000-2 | AS-IR02-3600-2 | AS-IR02-4200-2 | AS-IR02-5000-2 | AS-IR02-6000-2



Nr.	Item
1	PV Input Terminals
2	DC Switch
3	WiFi/LAN Module Port (opt. RS485)
4	CT /DRED Function
5	AC Output Terminal
6	LCD Display
7	Indicator Lights
8	Button

### CONTACT

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