

AEG

HYBRID SOLAR INVERTER



AS-ICH02-2/HV / HIGH VOLTAGE HYBRID SOLAR INVERTER

Characteristics

Power classes: 5 kW - 10 kW
Three-phase, 2 MPPT
Matte black housing, RS485+WiFi

Product Name Code (PNC)

AS-ICH02-5000/6500/8000/10000-2/HV


Extra peace of mind

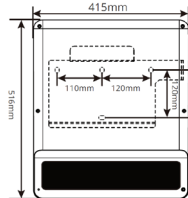
Extensive certifications and Quality Control
5 years product warranty

Advantages

Sleek looks, quiet operation (fanless design)
Smart load control and peak shaving
Integrated option for AEG High Voltage Battery connection
Built-in Type II SPD (DC side) and IP66 for extra reliability

AS-ICH02-2/HV / HIGH VOLTAGE HYBRID SOLAR INVERTER

PRODUCT SERIES					PRODUCT NAMECODE (PNC)						
AEG HYBRID INVERTER					AS-ICH02-5000/6500/8000/10000-2/HV						
TECHNICAL DATA											
MODEL: AS-ICH02-XXX-2/HV (XXX=...)		5000	6500	8000	10000	MODEL: AS-ICH02-XXX-2/HV (XXX=...)		5000	6500	8000	10000
BATTERY INPUT DATA											
Battery Type		Li-Ion									
Nominal Battery Voltage	[V]	500									
Battery Voltage Range	[V]	180 ~ 600									
Max. Continuous Charging Current	[A]	25									
Max. Continuous Discharging Current	[A]	25									
Max. Charging Power	[W]	7500	8450	9600	10000						
Max. Discharging Power	[W]	7500	8450	9600	10000						
PV STRING INPUT DATA											
Max. Input Power	[W]	7500	9700	12000	15000						
Max. Input Voltage (V) ¹	[V]	1000									
MPPT Operating Voltage Range ²	[V]	200 ~ 850									
Start-up Voltage	[V]	180									
Nominal Input Voltage	[V]	620									
Max. Input Current per MPPT	[A]	16									
Max. Short Circuit Current per MPPT	[A]	21.2									
Number of MPP Trackers		2									
Number of Strings per MPPT		1									
OPERATING CONDITIONS											
Operating Temperature Range (°C)	[°C]	-35 ~ +60									
Relative Humidity		0 ~ 95%									
Max. Operating Altitude	[m]	4000									
Cooling Method		Natural Convection									
User Interface		LED, APP									
Communication with BMS ⁵		RS485, CAN									
Communication with Meter		RS485									
Communication with Portal		WiFi									
Topology		Non-isolated									
Self-consumption at Night ⁶	[W]	<15									
Ingress Protection Rating		IP66									
Mounting		Wall-mounted									
PHYSICAL CHARACTERISTICS											
Height	[mm]	516									
Width	[mm]	415									
Depth	[mm]	180									
Weight	[kg]	24									
WARRANTY ⁷											
Product warranty		5 years									
PRODUCT APPEARANCE											
											
NOTES											
1-For 1000V system, maximum operating voltage is 950V 2-According to the local grid regulation 3-Can be reached only if PV and battery power is enough.											
4-For Belgium, max. output apparent power (VA): GW5K-ET is 5000, GW6.5K-ET is 6500, GW8K-ET is 8000, GW10K-ET is 10000.											
5-CAN communication is configured default. If RS485 communication is used, please replace the corresponding communication line.											
6-No back-up output 7- For the full Warranty Terms please visit www.aeg-industrialsolar.de Dimensions in the technical picture are expressed in mm with tolerance ±2 mm (±0.079 ")											
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AC OUTPUT DATA (ON-GRID)					
Nominal Apparent Power Output to Utility Grid	[VA]	5000	6500	8000	10000
Max. Apparent Power Output to Utility Grid ^{2,4}	[VA]	5500	7150	8800	11000
Max. Apparent Power from Utility Grid	[VA]	10000	13000	15000	15000
Nominal Output Voltage	[V]	400 / 380, 3L / N / PE			
Nominal AC Grid Frequency	[Hz]	50 / 60			
Max. AC Current Output to Utility Grid	[A]	8.5	10.8	13.5	16.5
Max. AC Current From Utility Grid	[A]	15.2	19.7	22.7	22.7
Power Factor		-1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	[A]	<3%			
AC OUTPUT DATA (BACK-UP)					
Back-up Nominal Apparent Power	[VA]	5000	6500	8000	10000
Max. Output Apparent Power ³	[VA]	5000 (10000@60sec)	6500 (13000@60sec)	8000 (16000@60sec)	10000 (16500@60sec)
Max. Output Current	[A]	8.5	10.8	13.5	16.5
Nominal Output Voltage	[V]	400 / 380			
Nominal Output Frequency	[Hz]	50 / 60			
Output THDv (@Linear Load)	[A]	<3%			
EFFICIENCY					
Max. Efficiency		98.0%	98.0%	98.2%	98.2%
European Efficiency		97.2%	97.2%	97.5%	97.5%
Max. Battery to AC Efficiency		97.5%	97.5%	97.5%	97.5%
MPPT Efficiency		99.9%	99.9%	99.9%	99.9%
PROTECTION					
PV Insulation Resistance Detection		Integrated			
Residual Current Monitoring		Integrated			
PV Reverse Polarity Protection		Integrated			
Anti-islanding Protection		Integrated			
AC Overcurrent Protection		Integrated			
AC Short Circuit Protection		Integrated			
AC Overvoltage Protection		Integrated			
DC Switch		Integrated			
DC Surge Protection		Type II			
AC Surge Protection		Type III			
Remote Shutdown		Integrated			
CERTIFICATIONS					
EN 50549, DIN V VDE 126-1-1:2006-02, IEC 61727:2004, IEC 62116:2014, IEC 62109-1:2010, IEC 61209-2:2011, Synergrid/C10/C11					
Further information: www.aeg-industrialsolar.de					
TECHNICAL DRAWINGS					
					

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