AEG

HYBRID SOLAR INVERTER



Built-in Type II SPD (DC side) and IP66 for extra reliability



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

5000 6500 8000 10000

9600 10000

PRODUCT SERIES
AEG HYBRID INVERTER

MODEL: AS-ICH02-XXX-2/HV

PRODUCT NAMECODE (PNC)
AS-ICH02-5000/6500/8000/10000-2/HV

MODEL: AS-ICH02-XXX-2/HV (XXX=...)

TECHNICAL DATA

Max. Discharging Power

BATTERY INPUT DATA					
Battery Type		Li-lon			
Nominal Battery Voltage	[V]	500			
Battery Voltage Range	[V]	180 ~ 60	00		
Max. Continuous Charging Current	[A]	25			
Max. Continuous Discharging Current	[A]	25			
Max. Charging Power	rw1	7500	8450	9600	10000

[W] 7500 8450

(XXX=...)

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 ~ 85	50		
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	S	
Height	[mm]	516
Width	[mm]	415
Depth	[mm]	180
Weight	[kg]	24

WARRANTY ⁷	
Product warranty	5 years



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 (Adju	stable from	0.8 leading	to 0.8 laggin	g)
Max. Total Harmonic Distortion	[A]	<3%			

5000 6500 8000 10000

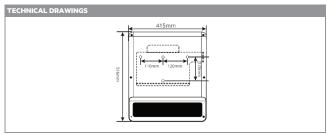
AC OUTPUT DATA (BACK-UP)					
Back-up Nominal Apparent Power	[VA]	5000	6500	8000	10000
Max. Output Apparent Power ³	[VA]	5000 (10000@ 60sec)	6500 (13000@ 60sec)	8000 (16000@ 60sec)	10000 (16500@ 60sec)
Max. Output Current	[A]	8.5	10.8	13.5	16.5
Nominal Output Voltage	[V]	400 / 380			
Nominal Output Frequency	[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 126-1-12006-02, IEC 61727:2004, IEC 62116:2014, IEC 62109-1:2010, IEC 61209-2:2011, Synergrid/C10/C11. Further information: www.aeg-industrialsolar.de



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): AS-ICH02-5000-2/HV is 5000, AS-ICH02-6500-2/HV is 6500, AS-ICH02-8000-2/HV is 8000, AS-ICH02-10000-2/HV 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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