

HYBRID SOLAR INVERTER



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												
		Li-lon				AC OUTPUT DATA (ON-GRID)	D/A1	5000	6500	8000	10000	
Battery Type Nominal Battery Voltage	[V]	500				Nominal Apparent Power Output to Utility Grid Max. Apparent Power Output to Utility Grid ²⁴	[VA] [VA]	5500	7150	8800	110000	
Battery Voltage Range	[V]	180 ~ 6	00			Max. Apparent Power from Utility Grid	[VA]	10000	13000	15000	15000	
Max. Continuous Charging Current	[A]	25				Nominal Output Voltage	[V]		30, 3L / N		10000	
Max. Continuous Discharging Current	[A]	25				Nominal AC Grid Frequency	[Hz]	50 / 60		,		
Max. Charging Power	[W]	7500	8450	9600	10000	Max. AC Current Output to Utility Grid	[A]	8.5	10.8	13.5	16.5	
Max. Discharging Power	[W]	7500	8450	9600	10000	Max. AC Current From Utility Grid	[A]	15.2	19.7	22.7	22.7	
						Power Factor	~1 (Adj	ustable from	0.8 leading	to 0.8 lagging		
PV STRING INPUT DATA						Max. Total Harmonic Distortion	[A]	<3%				
Max. Input Power	[W]	7500	9700	12000	15000							
Max. Input Voltage (V) ¹	[V]	1000				AC OUTPUT DATA (BACK-UP)						
MPPT Operating Voltage Range ²	[V]	200 ~ 8	350			Back-up Nominal Apparent Power	[VA]		6500	8000	10000	
Start-up Voltage	[V]	180				Max. Output Apparent Power ³	[VA]	5000 (10000@	6500 (13000@	8000 (16000@	10000 (16500@	
Nominal Input Voltage	[V]	620						60sec)	60sec)	60sec)	60sec)	
Max. Input Current per MPPT	[A]	16				Max. Output Current	[A]	8.5	10.8	13.5	16.5	
Max. Short Circuit Current per MPPT	[A]	21.2				Nominal Output Voltage	[V]	400 / 38	30			
Number of MPP Trackers	_	2				Nominal Output Frequency	[Hz]	50 / 60				
Number of Strings per MPPT		1				Output THDv (@Linear Load)	[A]	<3%				
ODED A TIME CONDITIONS						FERIENOV						
OPERATING CONDITIONS	50.01	75 14	(0			EFFICIENCY		00.0%	00.0%	00.0%	00.0%	
Operating Temperature Range (°C)	[°C]	-35 ~ +6				Max. Efficiency		98.0% 97.2%	98.0% 97.2%	98.2% 97.5%	98.2% 97.5%	
Relative Humidity	[m]	4000	•			European Efficiency		97.5%	97.5%	97.5%	97.5%	
Max. Operating Altitude Cooling Method	[m]		Convecti	on		Max. Battery to AC Efficiency MPPT Efficiency		99.9%	99.9%	99.9%	99.9%	
User Interface	_	Natural Convection LED, APP				Pirri Endency		77.770	77.770	77.770	77.770	
Communication with BMS ⁵		RS485, CAN				PROTECTION						
Communication with Meter		RS485				PV Insulation Resistance Detection		Integrated				
Communication with Portal	_	WiFi				Residual Current Monitoring		Integrated				
Topology		Non-isolated				PV Reverse Polarity Protection		Integrated				
Self-consumption at Night ⁶	[W]	<15				Anti-islanding Protection		Integrated				
Ingress Protection Rating		IP66				AC Overcurrent Protection		Integrated				
Mounting		Wall-mo	ounted			AC Short Circuit Protection		Integrat	ed			
						AC Overvoltage Protection		Integrat	ed			
PHYSICAL CHARACTERISTICS						DC Switch		Integrat	ed			
Height	[mm]	516				DC Surge Protection		Type II				
Width		415				AC Surge Protection		Type III				
Depth		180				Remote Shutdown		Integrat	ed			
Weight	[kg]	24										
7						CERTIFICATIONS						
WARRANTY ⁷	F					EN 50549, DIN V VDE 126-1-1:2006-02, IEC 61727:2004, IEC 6 Further information: www.aeg-industrialsolar.de	2116:2014, IEC (52109-1:2010	, IEC 61209-2	2:2011, Syner	grid/C10/C	
Product warranty	5 yea	rs				Further information, www.aeg-industrialsolat.de						
						TECHNICAL DRAWINGS						
PRODUCT APPEARANCE						TECHNICAL DRAWINGS						
•		•				44	15mm	*				
						↑ (* 		-1				
							·····					
A	6					110mm	120mm	120				
	.0	•				i6mm •	_	•				
								T				
								4				
	8											
		ſ				<u>+ 6</u>		-9				
L						L						
NOTES												
1-For 1000V system, maximum operating voltage is 950V 2-Accord	ing to the loc	al grid regula	ation 3-Can I	be reached on	nly if PV and batte	ry power is enough.						
4-For Belgium, max. output apparent power (VA): GW5K-ET is 5000												
5-CAN communication is configured default. If RS485 communicatio	n is used, plea	ase replace th	he correspond	dina communi	cation 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 *)

© Solar Solutions Group. Version 2022.07.V1.EN Specifications in this datasheet are subject to change without notice.

AEG is a registered trademark used under license from AB Electrolux (publ).

CONTACT

Distributor: VDH Solar Groothandel B.V. Finlandlaan 1, 2391 PV Hazerswoude-Dorp, Holland |+31 (0)172 235 990 | info@vdh-solar.nl | www.vdh-solar.nl

