



Product Service

Attestation of Conformity

No. E8A 119210 0016 Rev. 00

Holder of Attestation: **Senmarck Energy Ltd**
2F Building 5A, Tusincere Park, No. 333 Longfei Rd
Longgang District
518100 Shenzhen
PEOPLE'S REPUBLIC OF CHINA

Name of Object: **Converter**
(Hybrid Inverter)

This Attestation of Conformity is issued on a voluntary basis according to the Directive 2014/30/EU relating to electromagnetic compatibility. It confirms that the listed apparatus complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: www.tuvsud.com/ps-cert

Test report no.: 64772223105601J

Date, 2023-05-26

(Tony Liu)

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This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.

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Model(s): Guard Plus-8KH3, Guard Plus-10KH3, Guard Plus-12KH3

Description of Object:

Subject:

Model Name	Guard Plus-8KH3	Guard Plus-10KH3	Guard Plus-12KH3
Battery terminal Data			
Battery Voltage Range	44~58 Vd.c.		
Max. Charge Current	160 Ad.c.		
Max. Discharge Current	160 Ad.c.	200 Ad.c.	
Max. Charge Power	8000 W		
Max. Discharge Power	8000 W	10000 W	
PV String Input Data			
Max. PV Input Power	16000 W	20000 W	20000 W
Max. PV Input Voltage	1100 Vd.c.		
MPPT Range	140-1000 Vd.c.		
MPPT Range (Full load)	380~850 Vd.c.	420~850 Vd.c.	480~850 Vd.c.
Nominal PV Input Voltage	720 Vd.c.		
Max. Input Current	15 Ad.c. x 2		
Max. Short Current	20 Ad.c. x 2		
No. of MPP Trackers	2		
Strings per MPP Tracker	1		
AC terminal Data(On-grid)			
Nominal Output Power	8000 W	10000 W	12000 W
Max. Output Power	8800 VA	11000 VA	13200 VA
Nominal Input Power	16000 W	17800 W	
Max. Input Power	16000 VA	17800 VA	
Nominal Output Voltage	3W/N/PE, 230/400 Va.c.		
Nominal Output Frequency	50/60 Hz		
Max. AC Output Current	12.8 Aa.c.	16 Aa.c.	19.2 Aa.c.
Rated AC Output Current	11.6 Aa.c.	14.5 Aa.c.	17.4 Aa.c.
Max. AC Input Current	25 Aa.c.	25 Aa.c.	
Rated AC Input Current	23.2 Aa.c.	25 Aa.c.	
Output Power Factor	Adjustable from 0.8 leading to 0.8 lagging		

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AC Output Data (Back-up/Load Control)			
Max. Output Power	8000 VA	10000 VA	10000 VA
Rated Output Power	7360 W	9200 W	9200 W
Rated Output current	10.7 Aa.c.	13.3 Aa.c.	13.3 Aa.c.
Max. Output Current	11.6 Aa.c	14.5 Aa.c.	14.5 Aa.c.
Nominal Output Voltage	3/N/PE, 230/400Va.c.		
Nominal Output Frequency	50/60 Hz		
General Data			
Operating Temperature Range	-25°C ~+60°C (derating above 40°C)		
Relative Humidity	0-95%		
Operating Altitude	≤2000 m		
Cooling	Nature Cooling		
Protection class	I		
Ingress protection	IP65		

**Tested
according to:**

EN IEC 61000-6-1:2019
 EN IEC 61000-6-2:2019
 EN IEC 61000-6-3:2021
 EN IEC 61000-6-4:2019
 EN IEC 61000-3-2:2019/A1:2021
 EN 61000-3-3:2013/A2:2021
 EN IEC 61000-3-11:2019
 EN 61000-3-12:2011

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