

Compliance Document

No. D 119210 0018 Rev. 00

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

Product: **Converter**
(Hybrid Inverter)

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290233105001

Date, 2023-06-28



(Billy Qiu)

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

Parameters:

Model:	Guard Plus-8KH3	Guard Plus-10KH3	Guard Plus-12KH3
PV input parameter			
Maximum input voltage	1100 Vd.c.		
MPPT voltage range	140~1000 Vd.c.		
MPPT voltage range (full load)	380~850 Vd.c.	420~850 Vd.c.	480~850 Vd.c.
Maximum input current	2*15 Ad.c.		
PV I _{SC}	2*20 Ad.c.		
Battery input/output parameter			
Battery type	Lithium or lead-acid		
Input/output voltage range	44~58 Vd.c.		
Maximum input/output voltage	58 Vd.c.		
Maximum charging current	160 Ad.c.		
Maximum charging power	8000 W		
Maximum discharging current	160 Ad.c.	200 Ad.c.	
Maximum discharging power	8000 W	10000 W	
Grid parameter			
Rated input/output voltage	3/N/PE, 230/400 Va.c.		
Rated input/output frequency	50 Hz		
Maximum input current	25 Aa.c.		
Maximum input active power	16000 W	17800 W	
Maximum input apparent power	16000 VA	17800 VA	
Maximum input active power from grid to battery	8600 W		
Rated output current	11.6 Aa.c.	14.5 Aa.c.	17.4 Aa.c.
Maximum continuous output current	12.8 Aa.c.	16.0 Aa.c.	19.2 Aa.c.
Rated output active power	8000 W	10000 W	12000 W
Maximum output active power	8000 W	10000 W	12000 W
Maximum output apparent power	8800 VA	11000 VA	13200 VA
Maximum output active power from battery to grid (without PV input)	7500 W	9300 W	
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)		



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**Tested
according to:**

TOR Erzeuger Typ A Version 1.2:2022
OVE-Richtlinie R 25:2020