

Compliance Document

No. D 121028 0005 Rev. 00

Holder of Certificate: **AUNILEC SOLAR S.A.**
Op de Géieren 16
4970 Sprinkange
LUXEMBOURG

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.: 64290233222501

Date, 2024-03-12



(Billy Qiu)

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Model(s): AUNISOL8KT, AUNISOL10KT,
AUNISOL12KT

Parameters:

Model:	AUNISOL8KT	AUNISOL10KT	AUNISOL12KT
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 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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License condition:

- (1) The grid connection protection system is evaluated according to DIN VDE 0126-1-1 (VDE V 0126-1-1):2013-08, specially with consideration of "Enedis-FOR-RES_18E - Information Collection Cards for a Connection Proposal before the file is complete and for a Connection Offer, to the Public Distribution Network managed by Enedis, of a Photovoltaic Production Installation with power greater than 36 kVA (Version 18)". The setting of the integrated protection system of DIN VDE 0126-1-1/A1 VFR 2019 is as follows:
Over voltage (stage 1: 10 min. mean value): 1.10 Un;
Over voltage for phase voltage and line voltage (stage 2): 1.15 Un;
Under voltage for phase voltage and line voltage: 0.80 Un;
Over frequency: 51.5 Hz;
Under frequency: 47.5 Hz.
- (2) The installation of this Hybrid Energy Storage Inverter in the plant shall further comply with "Guide Pratique XP C 15-712-3:2016, Photovoltaic installations with storage device and connected to a public distribution network" and other suitable regulations.

**Tested
according to:**

DIN VDE 0126-1-1:2013 (with national deviation of France: DIN VDE 0126-1-1 VFR 2019)