



Product Service

Compliance Document

No. D 122028 0014 Rev. 00

Holder of Certificate: **Ingeteam Power Technology, S.A.**

Avda. Ciudad de la Innovación, 13
31621 Sarriguren, Navarra
SPAIN

Product: **Converter
(PV grid-interactive inverter)**

Model(s): **INGECON SUN 5TL M2, INGECON SUN 10TL M2,
INGECON SUN 15TL M2, INGECON SUN 20TL M2,
INGECON SUN 30TL M2**

Parameters: See page 2-3

Tested according to: CEI 0-21:2022
CEI 0-21:2022/V1:2022

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.: 64290233150301

Date, 2024-03-18

(Billy Qiu)

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Parameters:

Model Name	INGECON SUN 5TL M2	INGECON SUN 10TL M2
PV input terminal parameters		
Max. Input Voltage	1100 Vd.c.	
MPPT Voltage Range	160 Vd.c.-1000 Vd.c.	
MPPT Tracker number	1/1	
Max. Input Current	15/15 Ad.c.	
Shorted Input Current	20/20 Ad.c.	
AC output terminal parameters		
Rated Output Voltage	3/N/PE~, 230/400 Va.c.	
Rated Output Current	7.2 Aa.c.	14.5 Aa.c.
Max. Output Current	8.4 Aa.c.	17.0 Aa.c.
Rated. Output Power	5000 W	10000 W
Maximum Output Active Power P_{max}	5500 W	11200 W
Maximum Output Apparent Power S_{max}	5500 VA	11200 VA
Rated Output Frequency	50 Hz	
Power Factor	0.8 inductive to 0.8 capacitive	

Model Name	INGECON SUN 15TL M2	
PV input terminal parameters		
Max. Input Voltage	1100 Vd.c.	
MPPT Voltage Range	160 Vd.c.-1000 Vd.c.	
MPPT Tracker number	1/2	
Max. Input Current	15/30 Ad.c.	
Shorted Input Current	20/40 Ad.c.	
AC output terminal parameters		
Rated Output Voltage	3/N/PE~, 230/400 Va.c.	
Rated Output Current	21.7 Aa.c.	
Max. Output Current	25.3 Aa.c.	
Rated. Output Power	15000 W	
Maximum Output Active Power P_{max}	16700 W	
Maximum Output Apparent Power S_{max}	16700 VA	
Rated Output Frequency	50 Hz	
Power Factor	0.8 inductive to 0.8 capacitive	

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Model Name	INGECON SUN 20TL M2	INGECON SUN 30TL M2
PV input terminal parameters		
Max. Input Voltage	1100 Vd.c.	
MPPT Voltage Range	160 Vd.c.-1000 Vd.c.	
MPPT Tracker number	2/2	2/2
Max. Input Current	30/30 Ad.c.	40/30 Ad.c.
Shorted Input Current	40/40 Ad.c.	50/37.5 Ad.c.
AC output terminal parameters		
Rated Output Voltage	3/N/PE~, 230/400 Va.c.	
Rated Output Current	29.0 Aa.c.	43.5 Aa.c.
Max. Output Current	33.7 Aa.c.	50.2 Aa.c.
Rated. Output Power	20000W	30000W
Maximum Output Active Power P_{max}	22000 W	33000 W
Maximum Output Apparent Power S_{max}	22000 VA	33000 VA
Rated Output Frequency	50 Hz	
Power Factor	0.8 inductive to 0.8 capacitive	

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The following generators meet the requirements of CEI 0-21:2022						
Section A	Manufacturer	Ingeteam Power Technology, S.A. Avda. Ciudad de la Innovación, 13, 31621 Sarriguren, Navarra, SPAIN				
	Equipment type	PV grid-interactive inverter				
	Brand	Ingeteam				
	Number of phase	<input type="checkbox"/> Single phase <input checked="" type="checkbox"/> Three phase Frequency: 50Hz Voltage: 230/400 Va.c.				
	Primary energy used	<input checked="" type="checkbox"/> Solar <input type="checkbox"/> Storage <input type="checkbox"/> Wind <input type="checkbox"/> Hydroelectric <input type="checkbox"/> CHP <input type="checkbox"/> Other:				
	Generator model	INGECON SUN 5TL M2	INGECON SUN 10TL M2	INGECON SUN 15TL M2	INGECON SUN 20TL M2	INGECON SUN 30TL M2
	Rated active power output to Grid	5000 W	10000 W	15000 W	20000 W	30000 W
	Maximum apparent power output to Grid	5500 VA	11200 VA	16700 VA	22000 VA	33000 VA
	The generator:	<input checked="" type="checkbox"/> is suitable for installation in systems with an output power of more than 11.08 kW <input checked="" type="checkbox"/> is capable of limiting I _{dc} to 0.5% of rated current: <input checked="" type="checkbox"/> uses a DC-sensitive protection function <input type="checkbox"/> uses a transformer operating at mains frequency				
Section B	Characteristics of the interface protection system					
	Manufacturer	Ingeteam Power Technology, S.A.				
	Model	INGECON SUN 5TL M2, INGECON SUN 10TL M2, INGECON SUN 15TL M2, INGECON SUN 20TL M2, INGECON SUN 30TL M2				
Type	<input checked="" type="checkbox"/> Integrated <input type="checkbox"/> Not integrated Remark: The application of Model INGECON SUN 10TL M2, INGECON SUN 15TL M2, INGECON SUN 20TL M2, INGECON SUN 30TL M2 in system may exceed 11.08kW on grid connection point, external interface protection system is required according to final installation requirement.					
Section C	Characteristics of inverter(s)					
	Model of inverter	INGECON SUN 5TL M2	INGECON SUN 10TL M2	INGECON SUN 15TL M2	INGECON SUN 20TL M2	INGECON SUN 30TL M2
	Rated power of inverter (PNINV)	5000 W	10000 W	15000 W	20000 W	30000 W
	Manufacturer of inverter	Ingeteam Power Technology, S.A.				
	Firmware version	062511				

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Section I	References of the laboratories that performed the tests and their test reports (RdP)	
	Selected method	<input checked="" type="checkbox"/> Tests performed by an accredited laboratory
	Test Reports (RdP)	Test report according to Annex A, Annex B: 64.290.23.31503.01
	Issued by	Testing lab: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
	Accreditation No.	D-PL-19065-01-00
	Accreditation body ref.	DAkkS
Section M	Reference of the certification body	
	Certification Body	TÜV SÜD Product Service GmbH
		DAkkS accreditation certificate D-ZE-11321-01-00 according to DIN EN ISO/IEC 17065:2013