

Product Certificate Number	10978-29-E6-CER	
Applicant	Ingeteam Power Technology S.A. - Energy Avenida Ciudad De La Innovación, 13. 31621. Sarriguren. Navarra. SPAIN	
Series/	INGECON SUN Power Max B Series INGECON SUN STORAGE Power Max B Series	
Model/	<u>INGECON SUN Power Max B Series</u> INGECON SUN 720TL B260 INGECON SUN 748TL B270 INGECON SUN 830TL B300 INGECON SUN 860TL B310 INGECON SUN 890TL B320 INGECON SUN 915TL B330 INGECON SUN 940TL B340 INGECON SUN 970TL B350 INGECON SUN 1000TL B360 INGECON SUN 1025TL B370 INGECON SUN 1050TL B380 INGECON SUN 1070TL B385 INGECON SUN 1080TL B390 INGECON SUN 1110TL B400 INGECON SUN 1140TL B410 INGECON SUN 1165TL B420 INGECON SUN 1192TL B430 INGECON SUN 1219TL B440 INGECON SUN 1247TL B450 INGECON SUN 1250TL B450 INGECON SUN 1275TL B460 INGECON SUN 1303TL B470 INGECON SUN XXXXTL BYYY (*)	<u>INGECON SUN STORAGE Power Max B Series</u> INGECON SUN STORAGE 720TL B260 INGECON SUN STORAGE 748TL B270 INGECON SUN STORAGE 830TL B300 INGECON SUN STORAGE 860TL B310 INGECON SUN STORAGE 890TL B320 INGECON SUN STORAGE 915TL B330 INGECON SUN STORAGE 940TL B340 INGECON SUN STORAGE 970TL B350 INGECON SUN STORAGE 1000TL B360 INGECON SUN STORAGE 1025TL B370 INGECON SUN STORAGE 1050TL B380 INGECON SUN STORAGE 1070TL B385 INGECON SUN STORAGE 1080TL B390 INGECON SUN STORAGE 1110TL B400 INGECON SUN STORAGE 1140TL B410 INGECON SUN STORAGE 1165TL B420 INGECON SUN STORAGE 1192TL B430 INGECON SUN STORAGE 1219TL B440 INGECON SUN STORAGE 1247TL B450 INGECON SUN STORAGE 1275TL B460 INGECON SUN STORAGE 1303TL B470 INGECON SUN STORAGE XXXXTL BYYY (**) (*) This reference indicates the equipment between 220 V and 470 V of AC voltage (YYY) and between 610 kW and 1303 kW of AC power at 35°C (XXXX). (**) This reference indicates the equipment between 220 V and 470 V of AC voltage (YYY) and between 610 kW and 1303 kW of AC power at 35°C (XXXX).
Type of generating unit	Photovoltaic Inverter	
Technical Data	See page 3 and 4	
Standards	IEC 61000-6-2: 2005. EMC -- Part 6-2: Generic standards - Immunity for industrial environments. IEC 61000-6-4: 2006. EMC -- Part 6-4: Generic standards - Emission standard for industrial environments. IEC 61000-6-1: 2005. EMC -- Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments.	

Having assessed the test report number: 45828REM.001 performed by AT4 Wireless based on the requirements of the EN ISO/IEC 17025:2005

The above-mentioned generating unit complies with the requirements of the:
IEC 61000-6-2: 2005. EMC -- Part 6-2: Generic standards - Immunity for industrial environments.
IEC 61000-6-4: 2006. EMC -- Part 6-4: Generic standards - Emission standard for industrial environments.
IEC 61000-6-1: 2005. EMC -- Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments.

This certification is according the CERE internal process PET-CERE-09 Rev.10 based on the requirements of the EN ISO/IEC 17065:2012. For this certification process the conformity assessment activities were based on:

- Testing of production samples selected by CERE.
- Audit of quality system according ISO 9001 with certificate number: 0.04.12231 issued by a certification body accredited according EN ISO/IEC 17021.
- Inspection of the manufacturing process.

This certificate cancels and supersedes 10978-29-E5-CER issued on August 23rd, 2016

Madrid, November 02, 2017. This certificate is valid until December 21, 2019

Miguel Martínez Lavin
Certification Manager

INGECON SUN Power Max B Series 1000 Vdc

PV inverters with AC voltage ranging from 220 V to 420 V	
Input (DC)	
Recommended PV array power range	Pdc.min = 1,1*Pac (50°C) Pdc.max = 1,3*Pac (35°C)
Voltage MPP min.	$V_{mpp.min} = \frac{1,732 \sqrt{\frac{2}{3} V^2 + (0,0311 * I_{max})^2}}{0,985}$
Voltage MPP max.	820 V
Maximum Voltage	1050 V
Maximum Current	2000 A
Output (AC)	
Power 35°C/50°C	Pac = ($\sqrt{3}$) * Vac * Iac
Current 35°C/50°C	1600 A/ 1472 A
Rated Voltage	Vac = 220 V ... 420 V
Frequency	50 Hz/60 Hz
Software version	ABK1000_A

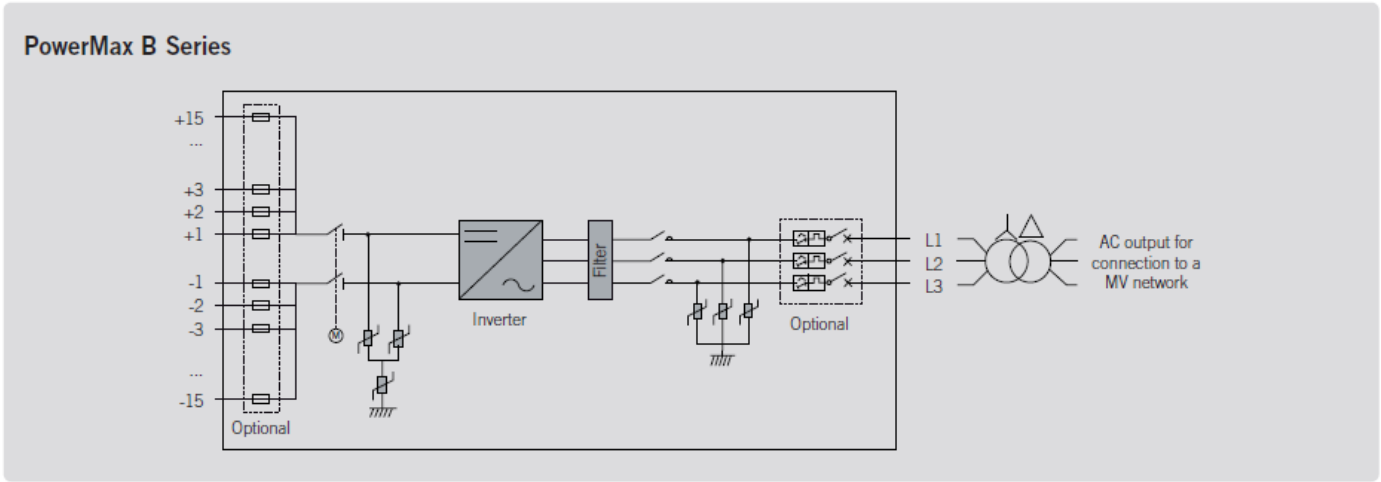
INGECON SUN STORAGE Power Max B Series 1000 Vdc

PV inverters with AC voltage ranging from 220 V to 420 V	
Input (DC)	
Min. Battery Voltage	$V_{mpp.min} = \frac{1,732 \sqrt{\frac{2}{3} (1,1V)^2 + (0,0311 * I_{max})^2}}{0,985}$
Max. Battery Voltage	820 V
Maximum Current	2000 A
Output (AC)	
Power 35°C/50°C	Pac = ($\sqrt{3}$) * Vac * Iac
Current 35°C/50°C	1600 A/ 1472 A
Rated Voltage	Vac = 220 V ... 420 V
Frequency	50 Hz/60 Hz
Software version	ABK1000_A

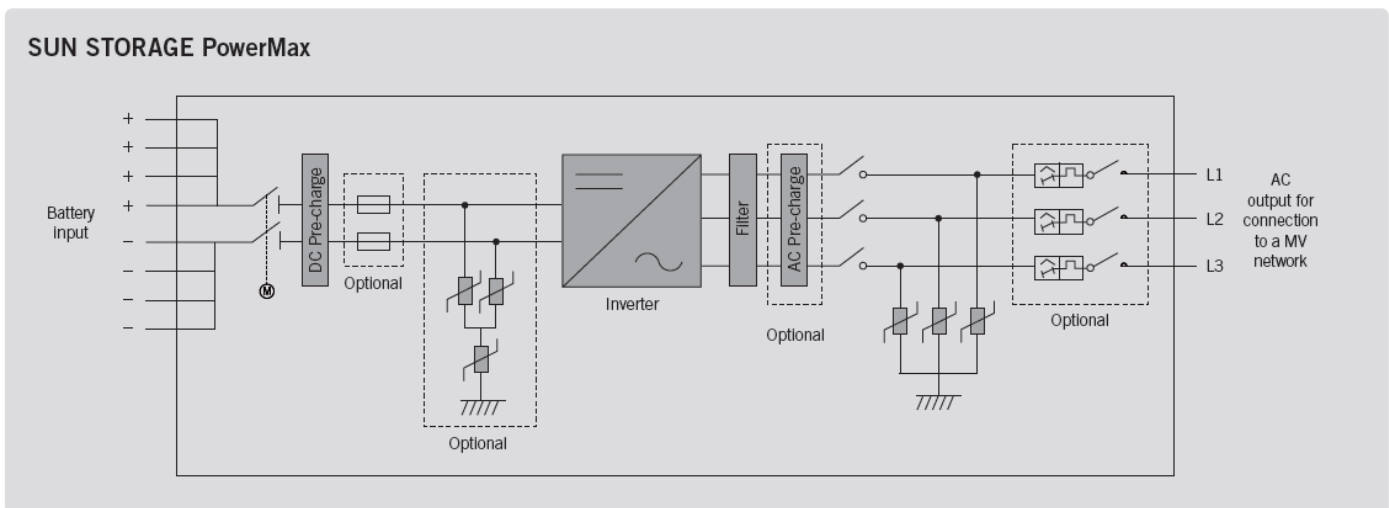
INGECON SUN Power Max B Series 1000 Vdc: 1250 TL B450

	1250 TL B450
Input (DC)	
Recommended PV array power range	1262-1621 kWp
Voltage MPP min.	653-820 V
Voltage MPP max.	1050 V
Maximum Voltage	2000 A
Maximum Current	2000 A
Output (AC)	
Power 35°C/46°C/52°C	1247 kVA / 1208 kVA / 1169 kVA
Current 35°C/46°C/52°C	1600 A / 1550 A / 1500 A
Rated Voltage	450 V IT System
Frequency	50/60 Hz
Software version	ABK1000_B

Electrical Diagram of INGECON SUN Power Max B Series:



Electrical Diagram of INGECON SUN STORAGE Power Max B Series:



Manufacturer:

Ingeteam Power Technology S.A. - Paneles
Pol. Ind. El Juncarillo, Nave 1
31293 Sesma (Navarra) - SPAIN

The sample selected to test was representative of the production.
The sample was selected in manufacture facilities.

On 13th of April of 2015

Sample Report Number:

10978-3-TM

The inspection of manufacturing process was performed in
manufacture facilities:

On 09th of February of 2016

Inspection Report Number:

CERE-C/Ingeteam Paneles