

Product Certificate Number	11251-29-E2-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 1500 Vdc INGECON SUN STORAGE Power Max B Series 1500 Vdc	
Model/	<u>INGECON SUN Power Max B Series 1500 Vdc</u> INGECON SUN 1170TL B450 INGECON SUN 1195TL B460 INGECON SUN 1220TL B470 INGECON SUN 1247TL B480 INGECON SUN 1273TL B490 INGECON SUN 1300TL B500 INGECON SUN 1325TL B510 INGECON SUN 1350TL B520 INGECON SUN 1376TL B530 INGECON SUN 1400TL B540 INGECON SUN 1430TL B550 INGECON SUN 1455TL B560 INGECON SUN 1480TL B570 INGECON SUN 1500TL B578 INGECON SUN 1532TL B590 INGECON SUN 1560TL B600 INGECON SUN 1580TL B630 INGECON SUN 1600TL B615 INGECON SUN 1640TL B630 INGECON SUN XXXXTL BYYY (**) (**) This reference indicates the equipment between 333 V and 630 V of AC voltage (YYY) and between 865 kW and 1640 kW of AC power at 35°C (XXXX).	<u>INGECON SUN STORAGE Power Max B Series 1500 Vdc</u> INGECON SUN STORAGE 1170TL B450 INGECON SUN STORAGE 1195TL B460 INGECON SUN STORAGE 1220TL B470 INGECON SUN STORAGE 1247TL B480 INGECON SUN STORAGE 1273TL B490 INGECON SUN STORAGE 1300TL B500 INGECON SUN STORAGE 1325TL B510 INGECON SUN STORAGE 1350TL B520 INGECON SUN STORAGE 1376TL B530 INGECON SUN STORAGE 1400TL B540 INGECON SUN STORAGE 1430TL B550 INGECON SUN STORAGE 1455TL B560 INGECON SUN STORAGE 1480TL B570 INGECON SUN STORAGE 1500TL B578 INGECON SUN STORAGE 1532TL B590 INGECON SUN STORAGE 1560TL B600 INGECON SUN STORAGE 1600TL B615 INGECON SUN STORAGE 1640TL B630 INGECON SUN STORAGE XXXXTL BYYY (**) (**) This reference indicates the equipment between 333 V and 630 V of AC voltage (YYY) and between 865 kW and 1640 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: 49882REM.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 to the CERE internal process PET-CERE-09 Rev 9 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 to ISO 9001 with certificate number: 0.04.12231 issued by a certification body accredited according to EN ISO/IEC 17021.
- Inspection of the manufacturing process.

This certificate cancels and supersedes the certificate number: 11251-29-E1-CER.

Madrid, November 8, 2016. This certificate is valid until November 8, 2019

Miguel Martínez Lavin
Certification Manager

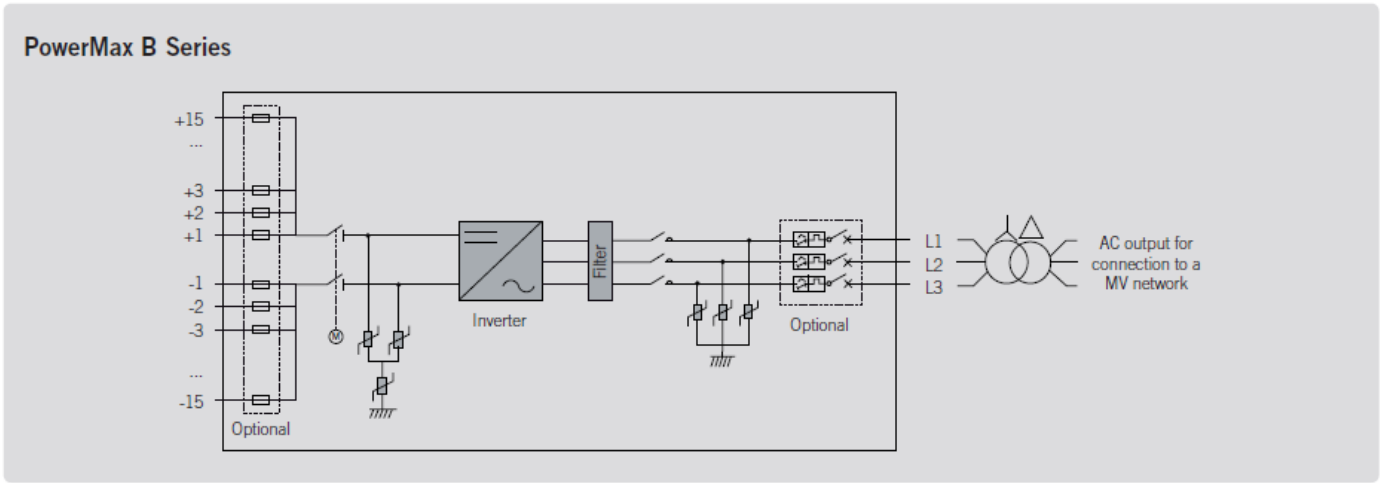
INGECON SUN PowerMax B series 1500 Vdc:

PV inverters with AC voltage ranging from 333 V to 630 V	
Input (DC)	
Recommended PV array power range	Pdc.min=1,1*Pac (50°C) Pac.max= 1,3*Pac (25 °C)
Voltage MPP min	$V_{mpp.min} = \frac{1,732 \sqrt{\frac{2}{3}V^2 + (0,04 * I_{max})^2}}{0,985}$
Voltage MPP max	1300 V
Maximum Voltage	1500 V
Maximum Current	2000 A
Output (AC)	
Power @25°C/@50°C	Pac = ($\sqrt{3}$) * Vac * Iac
Current @25°C/@50°C	1500 A/1250 A
Rated Voltage	Vac = 333 V ... 630 V
Frequency	50/60 Hz
Software version	ABK1000_B

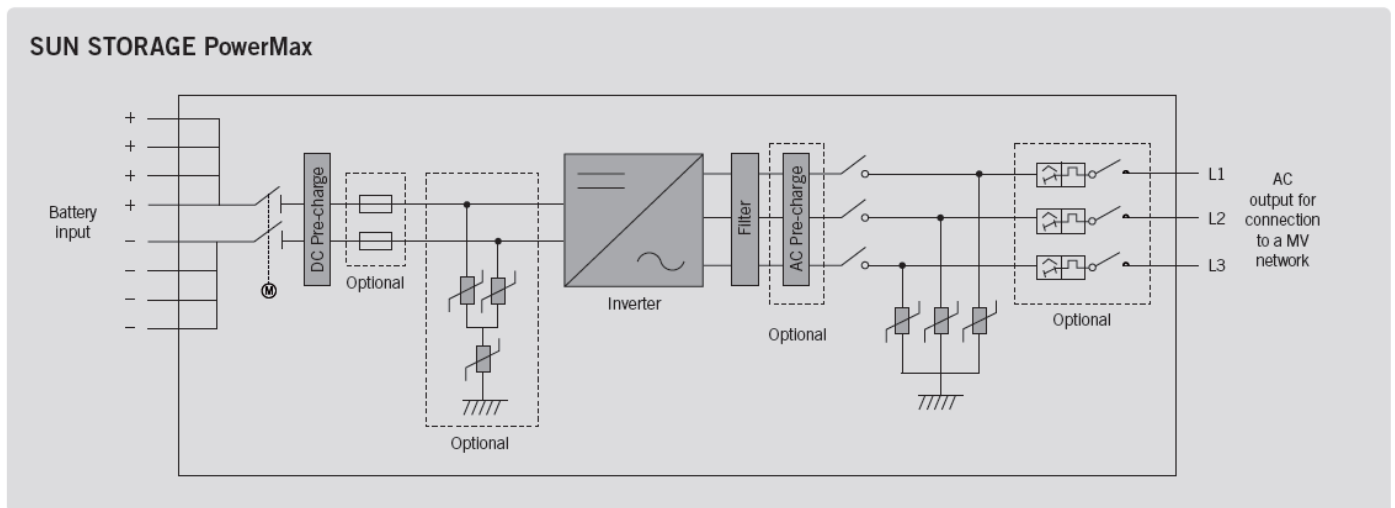
INGECON SUN STORAGE PowerMax B series 1500 Vdc

PV inverters with AC voltage ranging from 333 V to 630 V	
Input (DC)	
Min battery Voltage	$V_{mpp.min} = \frac{1,732 \sqrt{\frac{2}{3}(1,1V)^2 + (0,04 * I_{max})^2}}{0,985}$
Max. Battery voltage	1300 V
Maximum Current	2000 A
Output (AC)	
Power @25°C/@50°C	Pac = ($\sqrt{3}$) * Vac * Iac
Current @25°C/@50°C	1500 A/1250 A
Rated Voltage	Vac = 333 V ... 630 V
Frequency	50/60 Hz
Software version	ABK1000_B

Electrical Diagram of INGECON SUN Power Max B series 1500 Vdc:



Electrical Diagram of INGECON SUN STORAGE Power Max B series 1500 Vdc:



Manufacturer:

Ingeteam Power Technology S.A. -
Paneles
Pol. Ind. El Juncarillo, Nave 1
31293 Sesma (Navarra) - SPAIN
May 31, 2016

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

Sample Report Number:

11251-1-TM

The inspection of manufacturing process was performed in manufacture facilities:

February 9, 2016

Inspection Report Number:

CERE-C/Ingeteam Paneles