

<b>Product Certificate Number</b>	<b>11251-29-E5-CER</b>	
<b>Applicant</b>	Ingeteam Power Technology S.A. - Energy Avenida Ciudad De La Innovación, 13. 31621. Sarriguren. Navarra. SPAIN	
<b>Series/</b>	INGECON SUN Power Max B Series 1500 Vdc INGECON SUN STORAGE Power Max B Series 1500 Vdc	
<b>Model/</b>	<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 1665TL B640 INGECON SUN 1690TL B650 INGECON SUN 1715TL B660 INGECON SUN 1740TL B670 INGECON SUN 1767TL B680 INGECON SUN 1800TL B690 INGECON SUN 1820TL B700 INGECON SUN XXXXTL BYYY (***)	<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 1665TL B640 INGECON SUN STORAGE 1690TL B650 INGECON SUN STORAGE 1715TL B660 INGECON SUN STORAGE 1740TL B670 INGECON SUN STORAGE 1767TL B680 INGECON SUN STORAGE 1800TL B690 INGECON SUN STORAGE 1820TL B700 INGECON SUN STORAGE XXXXTL BYYY (***)
	(***) This reference indicates the equipment between 333 V and 700 V of AC voltage (YYY) and between 865 kW and 1820 kW of AC power at 30°C (XXXX).	
<b>Type of generating unit</b>	Photovoltaic Inverter	
<b>Technical Data</b>	See page 3 and 4	
<b>Standards</b>	<b>IEC 61000-6-2: 2005.</b> EMC -- Part 6-2: Generic standards - Immunity for industrial environments. <b>IEC 61000-6-4: 2006.</b> EMC -- Part 6-4: Generic standards - Emission standard for industrial environments. <b>IEC 61000-6-1: 2005.</b> 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 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 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-E4-CER.

Madrid, December 01, 2017. This certificate is valid until November 8, 2019

Miguel Martínez Lavín  
Certification Manager

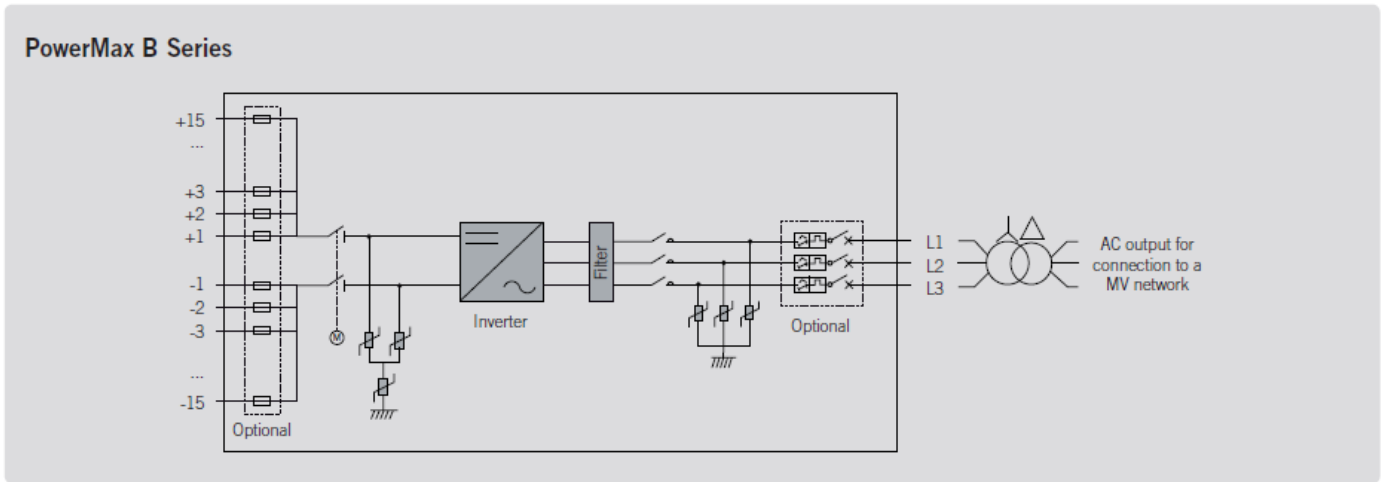
INGECON SUN Power Max B Series 1500 Vdc

PV inverters with AC voltage ranging from 333 V to 700 V	
<b>Input (DC)</b>	
Recommended PV array power range	$P_{dc.min}=1,1 \cdot P_{ac}$ (50°C) $P_{ac.max}= 1,3 \cdot P_{ac}$ (30 °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	1850 A
<b>Output (AC)</b>	
Power @30°C/@50°C	$P_{ac} = (\sqrt{3}) * V_{ac} * I_{ac}$
Current @30°C/@50°C	1500 A/1350 A
Rated Voltage	$V_{ac} = 333 \text{ V ... } 700 \text{ V}$
Frequency	50/60 Hz
Software version	ABK1000_B

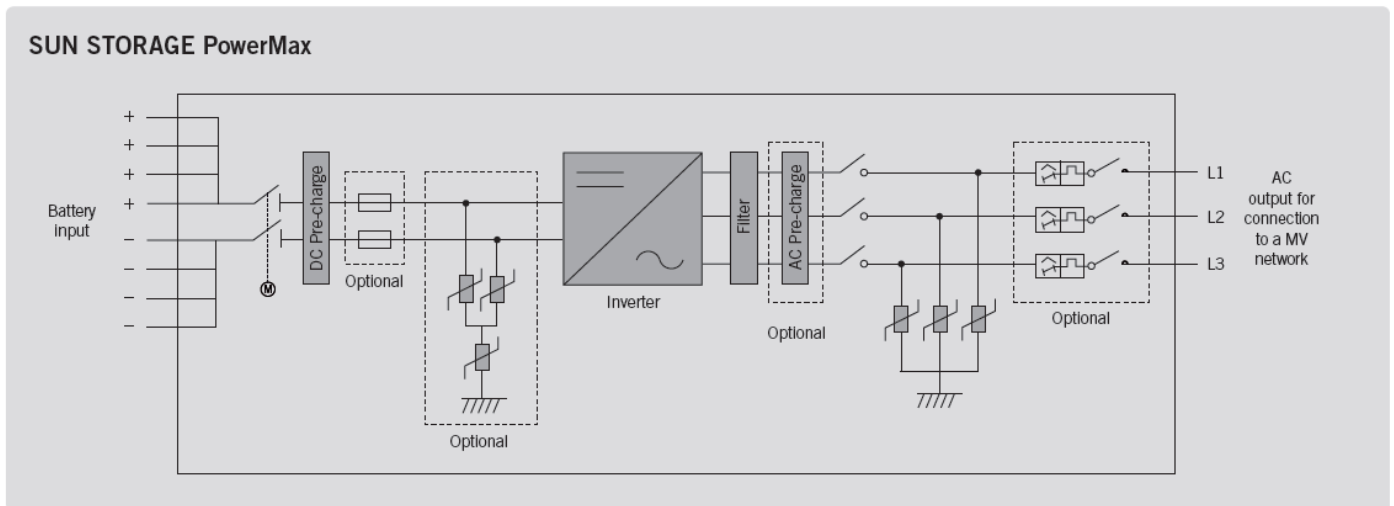
INGECON SUN STORAGE PowerMax B series 1500 Vdc

PV inverters with AC voltage ranging from 333 V to 700 V	
<b>Input (DC)</b>	
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	1850 A
<b>Output (AC)</b>	
Power @30°C/@50°C	$P_{ac} = (\sqrt{3}) * V_{ac} * I_{ac}$
Current @30°C/@50°C	1500 A/1350 A
Rated Voltage	$V_{ac} = 333 \text{ V ... } 700 \text{ V}$
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