

Product certificate number / Certificado de producto número

No: 2620/0003/A-CER

License holder / Titular del certificado

Shenzhen Growatt New Energy Technology Co., Ltd
1st East & 3rd Floor of Building A, Building B, Jiayu Industrial Park,
#28, GuangHui Road, LongTeng Community, Shiyan Street, Baoan
District, Shenzhen, P.R.China

Trademark / Marca



Factory / Fábrica

Shenzhen Growatt New Energy Technology Co., Ltd
1st East & 3rd Floor of Building A, Building B, Jiayu Industrial Park,
#28, GuangHui Road, LongTeng Community, Shiyan Street, Baoan
District, Shenzhen, P.R.China

Models / Modelos

**MIN 6000TL-XE, MIN 5000TL-XE, MIN 4600TL-XE, MIN 4200TL-XE,
MIN 3600TL-XE, MIN 3000TL-XE, MIN 2500TL-XE, MIN 6000TL-XH,
MIN 5000TL-XH, MIN 4600TL-XH, MIN 4200TL-XH, MIN 3600TL-XH,
MIN 3000TL-XH, MIN 2500TL-XH, MIN 6000TL-X, MIN 5000TL-X,
MIN 4600TL-X, MIN 4200TL-X, MIN 3600TL-X, MIN 3000TL-X, MIN 2500TL-X**

Technical Data / Datos Técnicos

Nominal Power / Potencia Nominal	From 2500 VA to 6000 VA. See pages 2, 3 and 4. De 2500 VA a 6000 VA. Ver páginas 2, 3 y 4.
Nominal Voltage / Tensión Nominal	230 V
Nominal Frequency / Frecuencia Nominal	50 Hz
Firmware version / Versión de Firmware	AL1.0
Number of phases / Número de fases	Singular-phase / Monofásico
Isolation transformer / Transformador de aislamiento	Transformerless / Sin transformador

Regulation / Norma

UNE 206 007-1 IN:2013,
Requisitos de conexión a la red eléctrica. Inversores para conexión a la red de distribución.

They are considered protective functions requirements for voltage and frequency abnormal variations in the grid stated in the Real Decreto 1699/2011 / *Se consideran los requisitos para funciones de protección ante variaciones anormales de tensión y frecuencia en la red según viene definido en el Real Decreto 1699/2011.*

The above-mentioned generating unit is certified according to the SGS internal procedure PE.T-ECPE-23 based on the requirements of the UNE-EN ISO / IEC 17065 / *El equipo antes mencionado está certificado conforme con el procedimiento interno de SGS PE.T-ECPE-23 de acuerdo con los requisitos de la norma UNE-EN ISO/IEC 17065.*

This certificate is valid until / *Este certificado es válido hasta el:* 13th January 2023 / 13 de enero de 2023.

Madrid, 13 de Enero de 2020

Daniel Arranz Muñiz
Certification Manager



Rated characteristics / Características nominales:

MIN xxxxTL-XE from 2500 to 6000:

Model	MIN 6000 TL-XE	MIN 5000 TL-XE	MIN 4600 TL-XE	MIN 4200 TL-XE	MIN 3600 TL-XE	MIN 3000 TL-XE	MIN2500 TL-XE
Specifications							
Input data (PV)							
Max. recommended PV power (for module STC)	8100W	7000W	6440W	5880W	5040W	4200W	3500W
Max. PV voltage	550V					500V	
MPP voltage range	80V - 550V					80V - 500V	
MPP voltage range at Full Power	250V-500V	210V-500V	195V-500V	180V-500V	155V-500V	130V-450V	110V-450V
Max. input current per MPP trackers	12.5A						
Max. short-circuit current per MPP trackers	16A						
Output data (AC Grid)							
AC nominal power	6000W	5000W	4600W	4200W	3600W	3000W	2500W
Max. AC apparent power	6000VA	5000VA	4600VA	4200VA	3600VA	3000VA	2500VA
Nominal AC voltage	230V						
AC grid frequency	50Hz						
Max. output current	27.2A	22.7A	20.9A	19.0A	16.0A	13.6A	11.3A
Rated output current	26.1A	21.7A	20.0A	18.3A	15.7A	13.0A	10.9A
Adjustable power factor	0.8leading~0.8lagging						



MIN xxxxTL-X from 2500 to 6000:

Model	MIN 6000 TL-X	MIN 5000 TL-X	MIN 4600 TL-X	MIN 4200 TL-X	MIN 3600 TL-X	MIN 3000 TL-X	MIN 2500 TL-X
Specifications							
Input data (PV)							
Max. recommended PV power (for module STC)	8100W	7000W	6440W	5880W	5040W	4200W	3500W
Max. PV voltage	550V					500V	
MPP voltage range	80V - 550V					80V - 500V	
MPP voltage range at Full Power	250V-500V	210V-500V	195V-500V	180V-500V	155V-500V	130V-450V	110V-450V
Max. input current per MPP trackers	12.5A						
Max. short-circuit current per MPP trackers	16A						
Output data (AC Grid)							
AC nominal power	6000W	5000W	4600W	4200W	3600W	3000W	2500W
Max. AC apparent power	6000VA	5000VA	4600VA	4200VA	3600VA	3000VA	2500VA
Nominal AC voltage	230V						
AC grid frequency	50Hz						
Max. output current	27.2A	22.7A	20.9A	19.0A	16.0A	13.6A	11.3A
Rated output current	26.1A	21.7A	20.0A	18.3A	15.7A	13.0A	10.9A
Adjustable power factor	0.8leading~0.8lagging						



MIN xxxx TL-XH from 2500 to 6000:

Model	MIN 6000 TL-XH	MIN 5000 TL-XH	MIN 4600 TL-XH	MIN 4200 TL-XH	MIN 3600 TL-XH	MIN 3000 TL-XH	MIN2500 TL-XH
Specifications							
Input data (PV)							
Max. recommended PV power (for module STC)	8100W	7000W	6440W	5880W	5040W	4200W	3500W
Max. PV voltage	550V					500V	
MPP voltage range	80V - 550V					80V - 500V	
MPP voltage range at Full Power	250V-500V	210V-500V	195V-500V	180V-500V	155V-500V	130V-450V	110V-450V
Max. input current per MPP trackers	12.5A						
Max. short-circuit current per MPP trackers	16A						
Input data (DC)							
DC input voltage range	350V-480V						
Max. Input current	10A						
Output data (AC Grid)							
AC nominal power	6000W	5000W	4600W	4200W	3600W	3000W	2500W
Max. AC apparent power	6000VA	5000VA	4600VA	4200VA	3600VA	3000VA	2500VA
Nominal AC voltage	230V						
AC grid frequency	50Hz						
Max. output current	27.2A	22.7A	20.9A	19.0A	16.0A	13.6A	11.3A
Rated output current	26.1A	21.7A	20.0A	18.3A	15.7A	13.0A	10.9A
Adjustable power factor	0.8leading~0.8lagging						

