

MIN 2500~6000 TL-X

- Maximum efficiency 98.4%
- Dual MPP trackers
- Type II SPD on DC side
- Supports export control
- Touch key and OLED display
- Data storage up to 25 years



P O W E R
- I N G O
T O M O -
R R O W O

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Datasheet	MIN 2500TL-X	MIN 3000TL-X	MIN 3600TL-X	MIN 4200TL-X	MIN 4600TL-X	MIN 5000TL-X	MIN 6000TL-X
Input Data (DC)							
Max. recommended PV power (for module STC)	3500W	4200W	5040W	5880W	6440W	7000W	8100W
Max. DC voltage	500V	500V	550V	550V	550V	550V	550V
Start voltage	100V						
Nominal voltage	360V						
MPP voltage range	80V-500V	80V-500V	80V-550V	80V-550V	80V-550V	80V-550V	80V-550V
No. of MPP trackers	2						
No. of PV strings per MPP tracker	1						
Max. input current per MPP tracker	12.5A						
Max. short-circuit current per MPP tracker	16A						
Output data (AC)							
AC nominal power	2500W	3000W	600W	4200W	4600W	5000W	6000W
Max. AC apparent power	2500VA	3000VA	3600VA	4200VA	4600VA	5000VA	6000VA
Nominal AC voltage (range*)	230V (180-280V)						
AC grid frequency (range*)	50/60 Hz (45-55Hz/55-65 Hz)						
Max. output current	11.3A	13.6A	16A	19A	20.9A	22.7A	27.2A
Adjustable power factor	0.8leading...0.8lagging						
THDi	<3%						
AC grid connection type	Single phase						
Efficiency							
Max. efficiency	98.2%	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
European efficiency	97.1%	97.1%	97.2%	97.5%	97.5%	97.5%	97.5%
MPPT efficiency	99.9%						
Protection Devices							
DC reverse polarity protection	yes						
DC switch	yes						
AC/DC surge protection	Type II / Type III						
Insulation resistance monitoring	yes						
AC short-circuit protection	yes						
Ground fault monitoring	yes						
Grid monitoring	yes						
Anti-islanding protection	yes						
Residual-current monitoring unit	yes						
AFCI protection	Optional						
General Data							
Dimensions (W / H / D)	375/350/160mm						
Weight	10.8kg						
Operating temperature range	-25°C ... +60°C						
Noise emission (typical)	≤35 dB(A)						
Nighttime power consumption	< 1W						
Topology	Transformerless						
Cooling	Natural convection						
Protection degree	IP65						
Relative humidity	0-100%						
Altitude	4000m						
DC connection	H4/MC4(Optional)						
AC connection	Connector						
Display	OLED+LED/WIFI+APP						
Interfaces: RS485 / USB/WI-FI / GPRS/ RF/LAN	Yes/Yes/Optional/Optional/Optional /Optional						
Warranty: 5 years / 10 years	Yes /Optional						
CE, IEC62109, VDE0126-1-1, AS4777, AS/NZS 3100, VDE-AR-N4105, CQC, IEC61683, IEC60068, IEC61727, IEC62116, INMETRO							

* The AC voltage and frequency range may vary depending on specific country grid standard. All specifications are subject to change without notice.

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Declaration Of Compliance

We, The Manufacturer

SHENZHEN GROWATT NEW ENERGY TECHNOLOGY CO.,LTD

Declare The Products:

Growatt 1500-S, Growatt 2000-S, Growatt 3000-S
Growatt 3600MTL-S, Growatt 4200MTL-S, Growatt 5500MTL-S
Growatt 18000UE, Growatt 20000UE,
Growatt 7000TL3-S, Growatt 8000TL3-S, Growatt 9000TL3-S,
Growatt 10000TL3-S, Growatt 11000TL3-S,
Growatt 12000TL3-S, Growatt 15000TL3-S,
Growatt 17000TL3-S, Growatt 20000TL3-S, Growatt 25000TL3-S,
Growatt 30000TL3-S, Growatt 33000TL3-S, Growatt 40000TL3-NS
MAX 50KTL3 LV, MAX 60KTL3 LV, MAX 70KTL3 LV, MAX 75KTL3 LV, MAX 80KTL3 LV
MAX 60KTL3 MV, MAX 70KTL3 MV, MAX 80KTL3 MV

The Growatt inverters listed above comply with the relevant requirements of the Brazilian standard:

ABNT NBR 16149:2013 Sistemas fotovoltaicos (FV) – Características da interface de conexão com a rede elétrica de distribuição – Primeira edição (01.03.2013)

[Photovoltaic (PV) systems – Characteristics of the utility interface – first edition, March 01-2013]

As results after internal testing made in accordance to the applicable conformance test protocol:

ABNT NBR 16150:2013 Sistemas fotovoltaicos (FV) — Características da interface de conexão com a rede elétrica de distribuição — Procedimento de ensaio de conformidade - Primeira edição (04.03.2013)

[Photovoltaic (PV) systems – Characteristics of the utility interface – Conformity test procedure. First edition, March 04-2013]

ABNT NBR 62116-2012 Procedimento de ensaio de anti-ilhamento para inversores de sistemas fotovoltaico conectados à rede.

Please refer to the conditions and restriction of use specified in the table, as well as in the following notes.

Inverter Model	Power	Nominal voltage/frequency No. of phase	Cos(phi)=f(p)	Reactive Power Capability	FRT capability
Growatt 1500-S	1.5kw	220V/230V/240V/60Hz,1-phase	No	No	Yes
Growatt 2000-S	2kw	220V/230V/240V/60Hz,1-phase	No	No	Yes
Growatt 3000-S	3kw	220V/230V/240V/60Hz,1-phase	No	No	Yes
Growatt 3600MTL-S	3.6kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
Growatt 4200MTL-S	4.2kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
Growatt 5500MTL-S	5kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
Growatt 18000UE	18kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 20000UE	20kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 7000TL3-S	7kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 8000TL3-S	8kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 9000TL3-S	9kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 10000TL3-S	10kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 11000TL3-S	11kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 12000TL3-S	12kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 15000TL3-S	15kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 17000TL3-S	17kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 20000TL3-S	20kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 25000TL3-S	25kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 30000TL3-S	30kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 33000TL3-S	33kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 40000TL3-NS	40kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX 50KTL3 LV	50kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX 60KTL3 LV	60kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX 70KTL3 LV	70kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX 75KTL3 LV	75kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX 80KTL3 LV	80kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX 60KTL3 MV	60kw	480V/60Hz,3-phase	Yes	Yes	Yes
MAX 70KTL3 MV	70kw	480V/60Hz,3-phase	Yes	Yes	Yes
MAX 80KTL3 MV	80kw	480V/60Hz,3-phase	Yes	Yes	Yes

Manufacturer
Shenzhen Growatt New Energy Technology CO., LTD

R&D Director

Woody



Registro 006602/2019 Data Concessão 28/08/2019 Validade 28/08/2023

Razão Social INOVACARE TECNOLOGIA EM ENERGIAS RENOVAVEIS LTDA - EPP - 24.114.056/0001-35	Número de certificado Não aplicável
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Objeto/Produto

Programa de Avaliação da Conformidade: Sistemas e equipamentos para energia fotovoltaica (módulo, controlador de carga, inversor e bateria)

Portaria: 4 de 04/01/2011

Nome de Família: MONOFÁSICO / 6000W

Data	Alteração	Marca	Modelo	Descrição	Código de barras
28/08/2019	Incluído	GROWATT	MIN 6000TL-X	INVERSOR MONOFÁSICO 6000W	