

GROWATT is a vibrant solar company with the goal of delivering high-quality, competitively-priced solar devices to make green energy more affordable and accessible around the world. GROWATT develops, produces and sells superior solar inverters for grid-tied and off-grid photovoltaic applications.

As the most important component of photovoltaic systems, the inverter converts the direct current generated in photovoltaic cells into alternating current suitable for the grid, intelligently managing the PV system to monitor the solar array and grid. According to key measurement parameters of inverters, GROWATT inverters have conversion efficiencies up to 97.9%.

GROWATT is continuously driven by technology and innovation to keep pace with the trends of the photovoltaic industry. Our best-in-class inverters are sold around the globe.

GROWATT's reliable and proven technology is supported by general warranties ranging from 10-15 years. We provide advanced technical support and post-sales service wherever our products are deployed. GROWATT is the one to count on.



Specifications for:

Growatt 1500TL-US

Growatt 2000TL-US

Growatt 3000TL-US

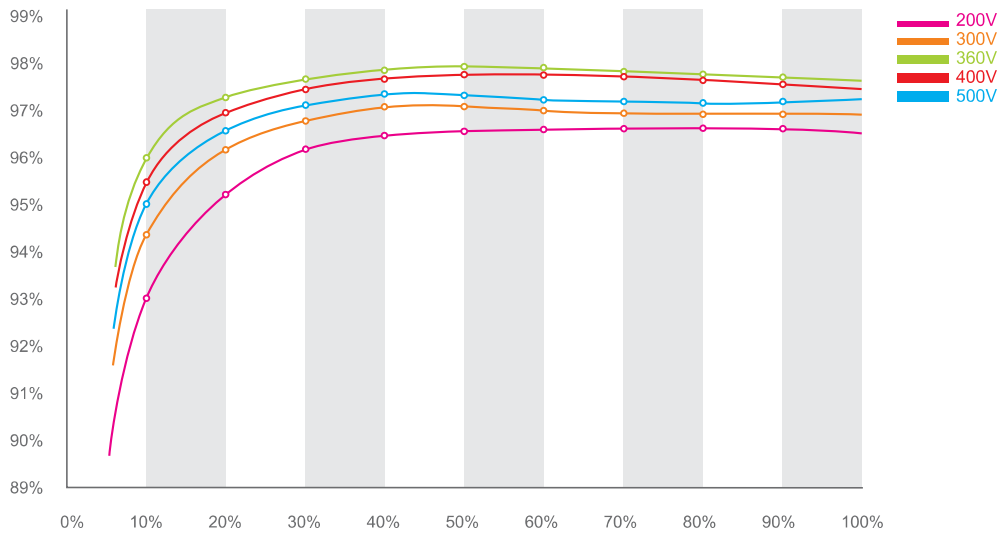


Leading Edge Technology

- ▶ Maximum Efficiency of 97.8% and Wide Input Voltage Range
- ▶ Internal DC Switch
- ▶ Transformerless GT Topology
- ▶ Compact Design
- ▶ MTL - String
- ▶ Bluetooth Technology
- ▶ Sound Control
- ▶ Easy Installation
- ▶ Comprehensive Warranty



Efficiency



Growatt 1500TL-US / 2000TL-US / 3000TL-US

DATA

	Growatt 1500TL-US	Growatt 2000TL-US	Growatt 3000TL-US
Input Data			
Max. DC Power	1800W	2300W	3150W
Max. DC Voltage	450V	500V	500V
PV Voltage Range MPPT	120V - 400V	120V - 450V	120V - 450V
Full Load Voltage	230V-400V	230V-450V	230V-450V
Max. Number of Parallel Strings	1	2	2
Number of MPP Trackers	1	1	1
MPPT Input Current	0-8A	0-10A	0-15A
Max. Input Current	8A	10A	15A
Output (AC)			
Nominal AC Output Power	1500W@208Vac 1650W@240 & 277Vac	1800W@208Vac 2000W@240 & 277Vac	2500W@208Vac 2800W@240 & 277Vac
Max. Output Power	1650W	2000W	2800W
Nominal Output Current	7.2A / 6.9A / 6A	8.7A / 8.3A / 7.2A	12A / 12A / 10A
Max. Output Current	8A / 7.8A / 6.8A	9.7A / 9.4A / 8.2A	15A / 14.2A / 12.3A
Nominal AC Voltage	208/240/or 277Vac single phase	208/240/or 277Vac single phase	208/240/or 277Vac single phase
AC Voltage Range	183V~228V@208Vac 211V~264V@240Vac 244V~305V@277Vac	183V~228V@208Vac 211V~264V@240Vac 244V~305V@277Vac	2183V~228V@208Vac 211V~264V@240Vac 244V~305V@277Vac
Nominal AC Grid Frequency	60Hz	60Hz	60Hz
AC Grid Frequency Range	59.3~60.5Hz	59.3~60.5Hz	59.3~60.5Hz
Phase Shift (cos φ)	>0.99	>0.99	>0.99
THDI	<3%	<3%	<3%
AC Connection	Single Phase	Single Phase	Single Phase
Efficiency			
Max. Efficiency	97.0%	97.5%	97.5%
CEC Efficiency	96.0%	96.5%	96.5%
MPPT Efficiency	99.5%	99.5%	99.5%
Protection Devices			
DC Reverse Polarity Protection	Yes	Yes	Yes
PV Ground Fault Protection	Yes	Yes	Yes
Insulation Resistance Low Protection	Yes	Yes	Yes
AC Short-Circuit Protection	Yes	Yes	Yes
Grid Monitoring	Yes	Yes	Yes
Anti-Islanding Protection	Yes	Yes	Yes
General Data			
Dimensions (W / D / H) in mm	360 / 465 / 165	360 / 465 / 165	360 / 465 / 165
Weight	14.6KG	15.1KG	15.9KG
Operating Temperature Range	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Continuous Full Output Temp. Range	-25 °C ... +45 °C	-25 °C ... +45 °C	-25 °C ... +45 °C
Noise Emission (Typical)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)
Enclosure	Type 3R	Type 3R	Type 3R
Consumption: Operating (Standby) / Night	<5W / <0.5W	<5W / <0.5W	<5W / <0.5W
Topology	Transformerless	Transformerless	Transformerless
Cooling Concept	Natural Cool	Natural Cool	Natural Cool
Altitude	Up to 2000m w/o Powder Derating	Up to 2000m w/o Powder Derating	Up to 2000m w/o Powder Derating
Installation: Indoors / Outdoors	Yes / Yes	Yes / Yes	Yes / Yes
Features			
DC Connection: (MC3/MC4/H4)	Opt / Opt / Yes	Opt / Opt / Yes	Opt / Opt / Yes
AC Connection: Terminals	Yes	Yes	Yes
LCD Display	Yes	Yes	Yes
Interfaces: Bluetooth/RS485/RS232	Opt / Yes / Yes	Opt / Yes / Yes	Opt / Yes / Yes
Warranty: 10 Years / 15 Years	Yes / Opt	Yes / Opt	Yes / Opt
Certificates and Approvals			
VDE 0125-1-1, IEC 62109, RD 1663, G83, EN 61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, AS4777, SNZ AS NZS 3100			

* Optionally provides 5000W