

GROWATT 3000-MTL-S SINGLE-PHASE INVERTER

GROWATT 5000-TL3-S THREE-PHASE INVERTER

GROWATT 5500-MTL-S SINGLE-PHASE INVERTER



Growatt is a new energy enterprise dedicated to the R&D and manufacturing of PV inverters including on-grid, off-grid and storage inverters, and user side smart energy management solutions as well. Growatt continues to integrate global resources, promote technology innovation and strive to lead in providing user side smart energy solutions across the world.



Growatt 3000-MTL-S Single-Phase Inverter

Warranty: 5 years
Phase: Single
Output: 3 kW
Country of manufacture: China

Growatt 3000MTL-S is an ideal solar system solution for private homes, modules at different sides of the roof and installed for a single phase system. Growatt is a new energy enterprise dedicated to the R&D and manufacturing of PV inverters including on-grid, off-grid and storage inverters, and user side smart energy management solutions as well.

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Growatt 5000-TL3-S Three-Phase Inverter

Warranty: 5 years
Phase: Three
Output: 5 kW
Country of manufacture: China

Growatt 5000TL3-S is an ideal solar system solution for private homes, businesses & small commercial sites. Modules can be installed at different sides of the roof and installed for a single-phase system. Growatt inverters are extensively used worldwide for applications in residential, commercial, PV poverty alleviation and utility-scale scenarios.

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Growatt 5500-MTL-S Single-Phase Inverter

Warranty: 5 years
Phase: Single
Output: 5.5 kW
Country of manufacture: China

Growatt 5500MTL-S is an ideal solar system solution for residential, businesses & small commercial sites. Modules can be installed at different sides of the roof and installed for a three phase system. Growatt will always insist on leading technology and put quality in the first place with its people-oriented and client-oriented spirit.

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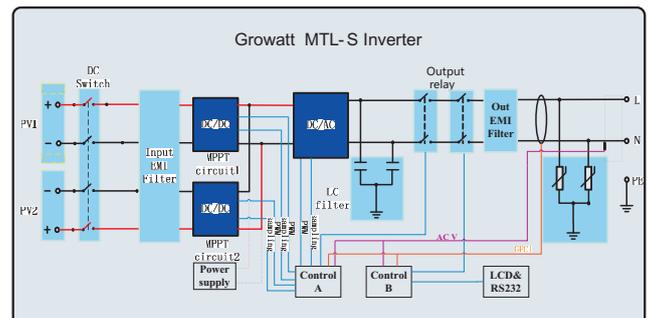
Growatt 2500MTL-S/3000MTL-S/3600MTL-S/
4200 MTL-S/5000MTL-S/5500MTL-S



Leading - edge Technology

- ▶ Double MPPT Tracker, MPPT tracking accuracy more than 99.5%
- ▶ Max. Efficiency 97.9%, European Efficiency 97.4%
- ▶ Integrated DC switch for added safety protection
- ▶ Transformerless design and high power density, offer lighter and more convenient installation
- ▶ 5 years standard warranty
- ▶ Power factor continuously adjustable
- ▶ Flexible communication connection, support RF, WiFi, Ethernet
- ▶ Comply with European, Asia-Pacific safety regulations

Growatt 2.5-5.5K MTL-S topology



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Datasheet	Growatt 2500MTL-S	Growatt 3000MTL-S	Growatt 3600MTL-S	Growatt 4200MTL-S	Growatt 5000MTL-S	Growatt 5500MTL-S
Input Data						
Max. recommended PV power (for module STC)	2900W	3500W	4100W	4800W	5300W	5750W
Max. DC voltage	550V	550V	550V	550V	550V	550V
Start voltage	100V	100V	100V	100V	100V	100V
PV voltage range	70V-550V	70V-550V	70V-550V	70V-550V	70V-550V	70V-550V
MPP work voltage range/nominal voltage	80V-550V /360V	80V-550V /360V	80V-550V /360V	80V-550V /360V	80V-550V /360V	80V-550V /360V
Full load dc voltage range	130V-440V	160V-440V	190V-440V	150V-440V	160V-440V	175V-440V
Max. input current of tracker A/ tracker B	10A/10A	10A/10A	10A/10A	15A/15A	15A/15A	15A/15A
Max. input current per string of tracker A/tracker B	10A/10A	10A/10A	10A/10A	15A/15A	15A/15A	15A/15A
Number of independent MPP trackers / strings per MPP tracker	2/1	2/1	2/1	2/1	2/1	2/1
Output (AC)						
Rated AC output power	2500W	3000W	3600W	4200W	4600W	5000W
Max. AC apparent power	2500VA	3000VA	3600VA	4200VA	4600VA	5000VA
Max. output current	11.3A	13.6A	16.3A	19A	20.9A	22.7A
AC nominal voltage; range	220V/230V /240V; 180Vac-280Vac	220V/230V/240V; 180Vac - 280Vac	220V/230V/240V; 180Vac - 280Vac	220V,230V,240V; 180Vac - 280Vac	220V,230V,240V; 180Vac - 280Vac	220V,230V,240V; 180Vac - 280Vac
AC grid frequency; range	50Hz,60Hz /± 5Hz	50Hz,60Hz /± 5Hz	50Hz,60Hz /± 5Hz	50Hz,60Hz /± 5Hz	50Hz,60Hz /± 5Hz	50Hz,60Hz /± 5Hz
Phase factor at rated power	1	1	1	1	1	1
Displacement power factor, configurable	0.8leading... 0.95lagging	0.8leading... 0.95lagging	0.8leading... 0.95lagging	0.8leading... 0.95lagging	0.8leading... 0.95lagging	0.8leading... 0.95lagging
THDI	<3%	<3%	<3%	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
Efficiency						
Max. efficiency	97.6%	97.6%	97.9%	97.9%	97.9%	97.9%
Euro weighted efficiency	97%	97%	97.4%	97.4%	97.4%	97.4%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%
Protection Devices						
DC reverse polarity protection	yes	yes	yes	yes	yes	yes
DC switch rating for each MPPT	yes	yes	yes	yes	yes	yes
Output over current protection	yes	yes	yes	yes	yes	yes
Output over voltage protection-varistor	yes	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes	yes
Integrated all - pole sensitive leakage current monitoring unit	yes	yes	yes	yes	yes	yes
General Data						
Dimensions (W / H / D) in mm	355*419*138	355*419*138	355*419*138	355*419*138	355*374*158	355*374*158
Weight	14KG	14KG	14KG	14KG	14.5KG	14.5KG
Operating temperature range	- 25 °C ... +60 °C	- 25 °C ... +60 °C	- 25 °C ... +60 °C	- 25 °C ... +60 °C	- 25 °C ... +60 °C	- 25 °C ... +60 °C
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)
Altitude	2000m without derating	2000m without derating	2000m without derating	2000m without derating	2000m without derating	2000m without derating
Self-Consumption night	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Natural	Natural	Natural	Natural	Natural	Natural
Environmental Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65
Relative humidity	100%	100%	100%	100%	100%	100%
Features						
DC connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
AC connection	Connector	Connector	Connector	Connector	Connector	Connector
Display	LCD	LCD	LCD	LCD	LCD	LCD
Interfaces: RS232 / RF / Wi-Fi / Ethernet	yes / opt / opt / opt	yes / opt / opt / opt	yes / opt / opt / opt	yes / opt / opt / opt	yes / opt / opt / opt	yes / opt / opt / opt
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt

Certificates and Approvals

CE, IEC62109, G83, VDE0126-1-1, G59, AS4777, AS/NZS 3100, CEI0-21, VDE-AR-N4105, EN50438, CQC



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Growatt 2500MTL-S/3000MTL-S/3600MTL-S/
4200 MTL-S/5000MTL-S/5500MTL-S



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- ▶ 5 years standard warranty
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Datasheet	Growatt 2500MTL-S	Growatt 3000MTL-S	Growatt 3600MTL-S	Growatt 4200MTL-S	Growatt 5000MTL-S	Growatt 5500MTL-S
Input Data						
Max. recommended PV power (for module STC)	2900W	3500W	4100W	4800W	5300W	5750W
Max. DC voltage	500V	500V	500V	500V	500V	500V
Start voltage	100V	100V	100V	100V	100V	100V
PV voltage range	70V-500V	70V-500V	70V-500V	70V-500V	70V-500V	70V-500V
MPP work voltage range/nominal voltage	80V-500V /360V	80V-500V /360V	80V-500V /360V	80V-500V /360V	80V-500V /360V	80V-500V /360V
Full load dc voltage range	160V-400V	160V-400V	190V-400V	175V-400V	175V-400V	175V-400V
Max. input current of tracker A/tracker B	10A/10A	10A/10A	10A/10A	15A/15A	15A/15A	15A/15A
Max. input current per string of tracker A/tracker B	10A/10A	10A/10A	10A/10A	15A/15A	15A/15A	15A/15A
Number of independent MPP trackers / strings per MPP tracker	2/1	2/1	2/1	2/1	2/1	2/1
Output (AC)						
Rated AC output power	2500W	3000W	3600W	4200W	4600W	5000W
Max. AC apparent power	2500VA	3000VA	3600VA	4200VA	4600VA	5000VA
Max. output current	12A	14.3A	17.2A	20A	22A	23.8A
AC nominal voltage; range	220V/230V /240V; 180Vac-280Vac	220V/230V/240V; 180Vac - 280Vac	220V/230V/240V; 180Vac - 280Vac	220V,230V,240V; 180Vac - 280Vac	220V,230V,240V; 180Vac - 280Vac	220V,230V,240V; 180Vac - 280Vac
AC grid frequency; range	50Hz,60Hz /± 5Hz	50Hz,60Hz /± 5Hz	50Hz,60Hz /± 5Hz	50Hz,60Hz /± 5Hz	50Hz,60Hz /± 5Hz	50Hz,60Hz /± 5Hz
Phase factor at rated power	1	1	1	1	1	1
Displacement power factor, configurable	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging
THDI	<3%	<3%	<3%	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
Efficiency						
Max. efficiency	97.6%	97.6%	97.9%	97.9%	97.9%	97.9%
Euro weighted efficiency	97%	97%	97.4%	97.4%	97.4%	97.4%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%
Protection Devices						
DC reverse polarity protection	yes	yes	yes	yes	yes	yes
DC switch rating for each MPPT	yes	yes	yes	yes	yes	yes
Output over current protection	yes	yes	yes	yes	yes	yes
Output over voltage protection-varistor	yes	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes	yes
Integrated all - pole sensitive leakage current monitoring unit	yes	yes	yes	yes	yes	yes
General Data						
Dimensions (W / H / D) in mm	362*419*138	362*419*138	362*419*138	362*419*138	362*419*138	362*419*185
Weight	14KG	14KG	14KG	14KG	14KG	15KG
Operating temperature range	- 25 °C ... +60 °C	- 25 °C ... +60 °C	- 25 °C ... +60 °C	- 25 °C ... +60 °C	- 25 °C ... +60 °C	- 25 °C ... +60 °C
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)
Altitude	2000m without derating	2000m without derating	2000m without derating	2000m without derating	2000m without derating	2000m without derating
Self-Consumption night	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Natural	Natural	Natural	Natural	Natural	Natural
Environmental Protection Rating	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
Relative humidity	100%	100%	100%	100%	100%	100%
Features						
DC connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
AC connection	Connector	Connector	Connector	Connector	Connector	Connector
Display	LCD	LCD	LCD	LCD	LCD	LCD
Interfaces: RS232 / RF / Wi-Fi / Ethernet	yes / opt / opt / opt	yes / opt / opt / opt	yes / opt / opt / opt	yes / opt / opt / opt	yes / opt / opt / opt	yes / opt / opt / opt
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt
Certificates and Approvals						
CE, IEC62109, G83, VDE0126-1-1, G59, AS4777, AS/NZS 3100, CQC						

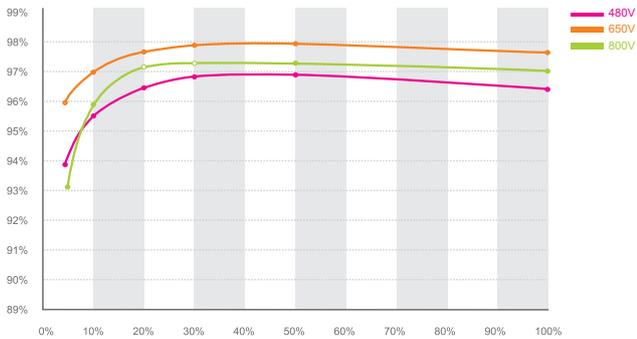


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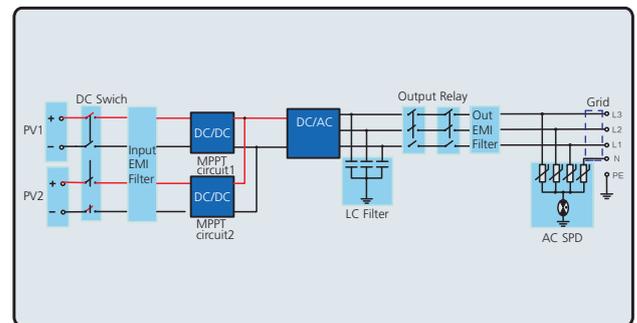
- ▶ Max. DC voltage up to 1000V
- ▶ Max. efficiency 98%
- ▶ Compact design
- ▶ Multi MPP controller
- ▶ Natural cooling
- ▶ High power density, offer lighter and easy installation
- ▶ Comprehensive Growatt warranty program



Growatt 6000TL3-S efficiency



Growatt 3-6kTL3-S topology



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Datasheet	Growatt 3000TL3-S	Growatt 4000TL3-S	Growatt 5000TL3-S	Growatt 6000TL3-S
Input data				
Max. recommended PV power (for module STC)	3600W	4800W	6000W	7200W
Max. DC voltage	1000V	1000V	1000V	1000V
Start Voltage	140V	140V	140V	140V
PV voltage range	140V-1000V	140V-1000V	140V-1000V	140V-1000V
Nominal voltage	620V	620V	620V	620V
MPP voltage range at Full Power	160V-800V	200V-800V	250V-800V	290V-800V
Max. input current	11A/11A	11A/11A	11A/11A	11A/11A
Number of independent MPP trackers/ strings per MPP tracker	2/1	2/1	2/1	2/1
Output (AC)				
Rated AC output power	3000W	4000W	5000W	6000W
Max AC apparent power	3000VA	4000VA	5000VA	6000VA
Max. output current	5.1A	6.8A	8.5A	10.2A
AC nominal voltage	230V/400V	230V/400V	230V/400V	230V/400V
AC grid frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Power factor	0.8leading - 0.8lagging	0.8leading - 0.8lagging	0.8leading - 0.8lagging	0.8leading - 0.8lagging
THDi	<3%	<3%	<3%	<3%
AC grid connection type	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE
Efficiency				
Max. efficiency	97.5%	97.8%	98.0%	98.0%
Euro - eta	96.5%	96.7%	96.9%	97.1%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%
Protection Devices				
DC reverse polarity protection	yes	yes	yes	yes
DC switch	yes	yes	yes	yes
Output over current protection	yes	yes	yes	yes
Output AC overvoltage Protection - Varistor	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes
Integrated all-pole sensitive leakage current monitoring unit	yes	yes	yes	yes
General Data				
Dimensions(W/H/D)	480/448/200 mm	480/448/200 mm	480/448/200 mm	480/448/200 mm
Weight	21.2kg	21.2kg	21.2kg	21.2kg
Operating temperature range	-25 °C ... +60 °C			
Noise emission (typical)	≤35 dB(A)	≤35 dB(A)	≤35 dB(A)	≤35 dB(A)
Altitude	3000m	3000m	3000m	3000m
Self-consumption night	< 0.5W	< 0.5W	< 0.5W	< 0.5W
Topology	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Natural	Natural	Natural	Natural
Environmental Protection Rating	IP65	IP65	IP65	IP65
Relative humidity	0~100%	0~100%	0~100%	0~100%
Features				
DC connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
AC connection	Screw terminal	Screw terminal	Screw terminal	Screw terminal
Display	LCD	LCD	LCD	LCD
Interfaces:RS232/RS485/RF/Ethernet/Wi-Fi	yes/yes/opt/opt/opt	yes/yes/opt/opt/opt	yes/yes/opt/opt/opt	yes/yes/opt/opt/opt
Warranty:5 years/10 years	yes/opt	yes/opt	yes/opt	yes/opt
Certificates and Approvals				
CE, IEC 62109-1/2, VDE 0126-1-1, Greece, VFR 2014, VDE-AR-N4105, G83, EN50438, AS4777, IEC 61727, IEC 62116, CQC				

