

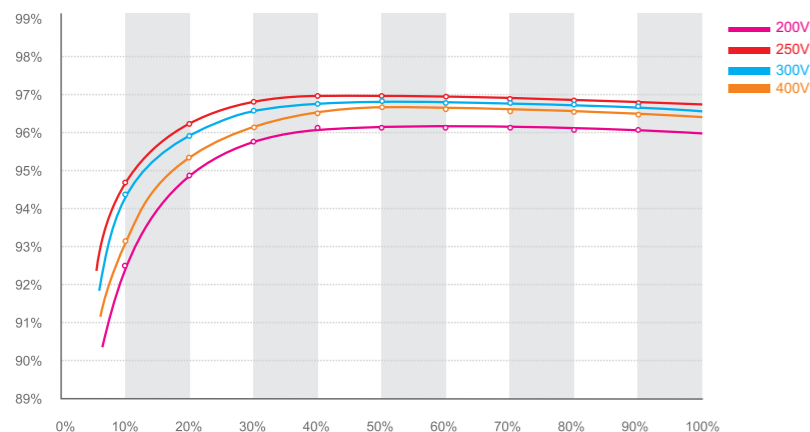


## Growatt 1000-S/1500-S/2000-S/3000-S

### Leading - edge Technology

- Maximum efficiency of 97% and wide input voltage range
- Internal DC switch
- Transformerless GT topology
- Compact design
- Ethernet / RF technology / WiFi
- Sound control
- Easy installation
- Comprehensive Growatt warranty program

Growatt 1500-S efficiency



Datasheet	Growatt 1000-S	Growatt 1500-S	Growatt 2000-S	Growatt 3000-S
<b>Input data (DC)</b>				
Max. recommended PV power (for module STC)	1300W	1900W	2300W	3400W
Max. DC voltage	450V	450V	450V	550V
Start voltage	80V	80V	80V	80V
PV voltage range	70V-450V	70V-450V	70V-450V	70V-550V
MPP work voltage range/ nominal voltage	70V-450V/180V	70V-450V/250V	70V-450V/360V	70V-550V/360V
Full load dc voltage range	110V-400V	175V-400V	200V-400V	250V-500V
Max. input current	10A	10A	11A	13A
Max. input current per string	10A	10A	11A	13A
Number of independent MPP trackers /strings per MPP tracker	1/1	1/1	1/1	1/ 2
<b>Output (AC)</b>				
Rated AC output power	1000W	1600W	2000W	3000W
Max. AC power	1000W	1650W	2000W	3000W
Max. output current	4.7A	7.8A	9.5A	14.3A
AC nominal voltage; range	220,230,240V; 180Vac-280Vac	220,230,240V; 180Vac-280Vac	220,230,240V; 180Vac-280Vac	220,230,240V; 180Vac-280Vac
AC grid frequency; range	50,60 Hz;±5 Hz	50,60 Hz;±5 Hz	50,60 Hz;±5 Hz	50,60 Hz;±5 Hz
Power factor	1	1	1	1
THDI	<3%	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase	Single phase
<b>Efficiency</b>				
Max. efficiency	97%	97%	97%	97%
Euro weighted efficiency	95.5%	96.5%	96.5%	96.5%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%
<b>Protection Devices</b>				
DC reverse polarity protection	yes	yes	yes	yes
DC switch rating for each MPPT	opt	opt	opt	opt
Output over current protection	yes	yes	yes	yes
Output over voltage 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
<b>General Data</b>				
Dimensions (W / H / D) in mm	271*267*142	271*267*142	271*267*142	271*320*142
Weight	6.1KG	6.1KG	6.1KG	8.8KG
Operating temperature range	- 25°C ... +60°C with derating above 45°C	- 25°C ... +60°C with derating above 45°C	- 25°C ... +60°C with derating above 45°C	- 25°C ... +60°C with derating above 45°C
Noise emission (typical)	≤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
Self-Consumption night	<0.5 W	<0.5 W	<0.5 W	<0.5 W
Topology	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Natural	Natural	Natural	Natural
Environmental Protection Rating	IP 65	IP 65	IP 65	IP 65
Relative humidity	100%	100%	100%	100%
<b>Features</b>				
DC connection	H4	H4	H4	H4
AC connection	Connector	Connector	Connector	Connector
Display	LCD	LCD	LCD	LCD
Interfaces: RS232/ RF/ Wi-Fi/ LAN/GPRS	yes /opt/opt/opt/opt	yes /opt/opt/opt/opt	yes /opt/opt/opt/opt	yes /opt/opt/opt/opt
Warranty: 5 years / 10 years	yes /opt	yes /opt	yes /opt	yes /opt
<b>Certificates and Approvals</b>				

CE, VDE 0126-1-1, IEC 62109, G83, AS4777, AS/NZS 3100, CEI0-21, VDE-AR-N4105, EN50438, CQC

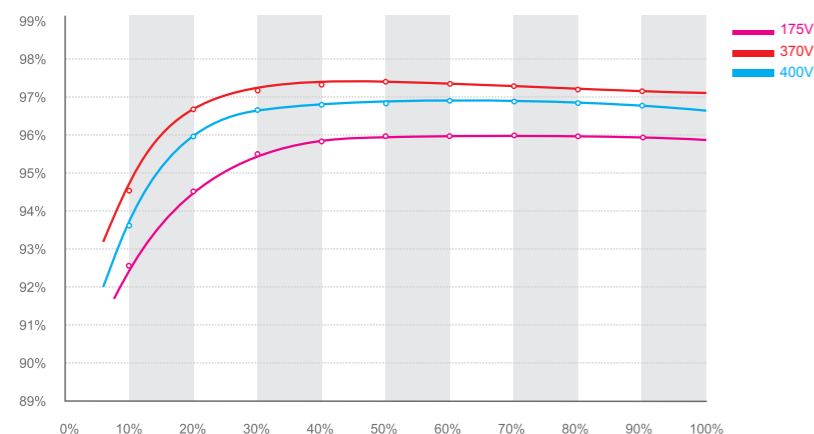


## Growatt 2500MTL-S/3000MTL-S

### Leading - edge Technology

- Double MPPT Tracker, MPPT tracking accuracy more than 99.5%
- Max. Efficiency 97.6%, 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 3000MTL-S efficiency



Datasheet	Growatt 2500MTL-S	Growatt 3000MTL-S
<b>Input Data</b>		
Max. recommended PV power (for module STC)	2900W	3500W
Max. DC voltage	500V	500V
Start voltage	100V	100V
PV voltage range	70V-500V	70V-500V
MPP work voltage range/ nominal voltage	80V-500V /360V	80V-500V /360V
Full load dc voltage range	130V-450V	160V-450V
Max. input current of tracker A/ tracker B	10A/10A	10A/10A
Max. input current per string of tracker A/tracker B	10A/10A	10A/10A
Number of independent MPP trackers / strings per MPP tracker	2/1	2/1
<b>Output (AC)</b>		
Rated AC output power	2500W	3000W
Max. AC apparent power	2500VA	3000VA
Max. output current	11.3A	13.6A
AC nominal voltage; range	220V/230V /240V; 180Vac-280Vac	220V/230V/240V;180Vac - 280Vac
AC grid frequency; range	50Hz,60Hz / ± 5Hz	50Hz,60Hz / ± 5Hz
Phase factor at rated power	1	1
Displacement power factor, configurable	0.8leading...0.95lagging	0.8leading...0.95lagging
THDI	<3%	<3%
AC connection	Single phase	Single phase
<b>Efficiency</b>		
Max. efficiency	97.6%	97.6%
Euro weighted efficiency	97%	97%
MPPT efficiency	99.5%	99.5%
<b>Protection Devices</b>		
DC reverse polarity protection	yes	yes
DC switch rating for each MPPT	yes	yes
Output over current protection	yes	yes
Output over voltage protection-varistor	yes	yes
Ground fault monitoring	yes	yes
Grid monitoring	yes	yes
Integrated all - pole sensitive leakage current monitoring unit	yes	yes
<b>General Data</b>		
Dimensions (W / H / D) in mm	355*419*138	355*419*138
Weight	14KG	14KG
Operating temperature range	- 25°C ... +60°C	- 25°C ... +60°C
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)
Altitude	2000m without derating	2000m without derating
Self-Consumption night	< 0.5 W	< 0.5 W
Topology	Transformerless	Transformerless
Cooling concept	Natural	Natural
Environmental Protection Rating	IP65	IP65
Relative humidity	100%	100%
<b>Features</b>		
DC connection	H4/MC4(opt)	H4/MC4(opt)
AC connection	Connector	Connector
Display	LCD	LCD
Interfaces: RS232 / RF / Wi-Fi / LAN/GPRS	yes / opt / opt / opt /opt	yes / opt / opt / opt /opt
Warranty: 5 years / 10 years	yes / opt	yes / opt
<b>Certificates and Approvals</b>		

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

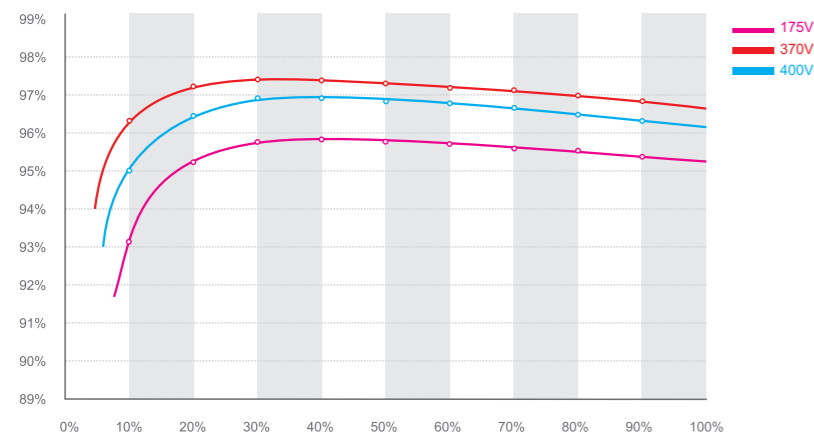


## Growatt 3600MTL-S/4200 MTL-S/5000MTL-S/5500MTL-S

### 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 5000MTL-S efficiency



Datasheet	Growatt 3600MTL-S	Growatt 4200MTL-S	Growatt 5000MTL-S	Growatt 5500MTL-S
<b>Input Data</b>				
Max. recommended PV power (for module STC)	4100W	4800W	5300W	5750W
Max. DC voltage	550V	550V	550V	550V
Start voltage	100V	100V	100V	100V
PV voltage range	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
Full load dc voltage range	190V-500V	150V-500V	160V-500V	175V-500V
Max. input current of tracker A/tracker B	10A/10A	15A/15A	15A/15A	15A/15A
Max. input current per string of tracker A/tracker B	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
<b>Output (AC)</b>				
Rated AC output power	3600W	4200W	4600W	5000W
Max. AC apparent power	3600VA	4200VA	4600VA	5000VA
Max. output current	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
AC grid frequency; range	50Hz,60Hz /± 5Hz	50Hz,60Hz /± 5Hz	50Hz,60Hz /± 5Hz	50Hz,60Hz /± 5Hz
Phase factor at rated power	1	1	1	1
Displacement power factor, configurable	0.8leading... 0.95lagging	0.8leading... 0.95lagging	0.8leading... 0.95lagging	0.8leading... 0.95lagging
THDI	<3%	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase	Single phase
<b>Efficiency</b>				
Max. efficiency	97.9%	97.9%	97.9%	97.9%
Euro weighted efficiency	97.4%	97.4%	97.4%	97.4%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%
<b>Protection Devices</b>				
DC reverse polarity protection	yes	yes	yes	yes
DC switch rating for each MPPT	yes	yes	yes	yes
Output over current protection	yes	yes	yes	yes
Output over voltage 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
<b>General Data</b>				
Dimensions (W / H / D) in mm	355*419*138	355*419*138	355*374*158	355*374*158
Weight	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
Noise emission (typical)	≤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
Self-Consumption night	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W
Topology	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Natural	Natural	Natural	Natural
Environmental Protection Rating	IP65	IP65	IP65	IP65
Relative humidity	100%	100%	100%	100%
<b>Features</b>				
DC connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
AC connection	Connector	Connector	Connector	Connector
Display	LCD	LCD	LCD	LCD
Interfaces:RS232/RF/Wi-Fi/LAN/GPRS	yes / opt / opt / opt / opt	yes / opt / opt / opt / opt	yes / opt / opt / opt / opt	yes / opt / opt / opt / opt
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt	yes / opt
<b>Certificates and Approvals</b>				
CE, IEC62109, G83, VDE0126-1-1, G59, AS4777, AS/NZS 3100, CEI0-21, VDE-AR-N4105, EN50438, CQC				