

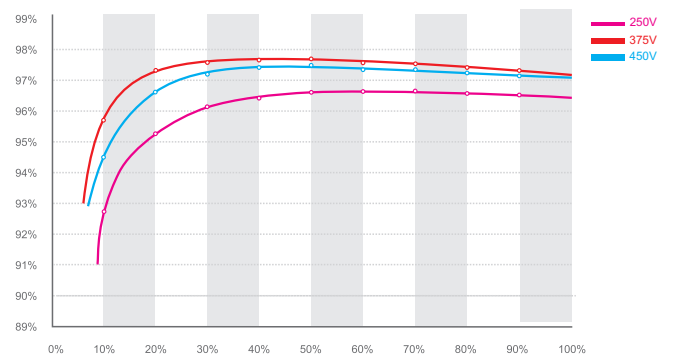
Growatt 3600MTL-US/4200MTL-US /5000MTL-US



Leading - edge Technology

- ▶ Maximum efficiency of 97.5% and wide input voltage range
- ▶ Internal DC switch
- ▶ Transformerless GT topology
- ▶ Compact design
- ▶ Multi MPP tracker
- ▶ Sound control
- ▶ Easy installation
- ▶ MTL - String
- ▶ Ethernet / RF technology / WiFi

Growatt 5000MTL-US efficiency



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Datasheet	Growatt 3600MTL-US	Growatt 4200MTL-US	Growatt 5000MTL-US
Input Data			
Max. recommend PV power	4500W	5250W	5750W
Max. DC input power for each MPPT	3600W	4200W	4600W
Max. DC voltage	600V	600V	600V
Start voltage	150V	150V	150V
DC nominal voltage	360V	360V	360V
PV voltage range	100V - 600V	100V - 600V	100V - 600V
MPP voltage range	120V - 550V	120V - 550V	120V - 550V
Rated MPPT voltage range	175V - 550V	175V - 550V	175V - 550V
Number of independent MPP trackers/ strings per MPP tracker	2 / 2	2 / 2	2 / 2
Max. usable input current /per MPP tracker	27A/12A	27A/15A	27A/15A
Max. input short circuit current for each MPPT	27A	27A	27A
Grid Output data			
Nominal AC output power	3600W	4200W	4600W opt:5000W@240V/277V
Max. output current	18A@208Vac/17.1A@240Vac/ 14.8A@277Vac	21A@208Vac/20A@240Vac/ 17.2A@277Vac	23.7A@208Vac/22A@240Vac/ 20.5A@277Vac
Max overcurrent protection device	67A	67A	67A
AC nominal voltage; range	Default:240V single phase, optional:208 or 277 single phase , optional: 240Vsplit phase 183-228@208V 211-264V@240V 244-305@277V		
AC grid frequency; range	60Hz; 59.3-60.5Hz	60Hz; 59.3-60.5Hz	60Hz; 59.3-60.5Hz
Phase shift (cos φ)	1	1	1
THDI	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase
Efficiency			
Max. efficiency	97.5%	97.5%	97.5%
CEC efficiency	97%	97%	97%
MPPT efficiency	99.5%	99.5%	99.5%
Protection Devices			
DC reverse polarity protection	yes	yes	yes
DC switch for each MPPT	yes	yes	yes
Output over current protection	yes	yes	yes
Output overvoltage protection-varistor	yes	yes	yes
Ground fault monitoring	yes	yes	yes
Grid monitoring	yes	yes	yes
Integrated all-pole sensitive leakage current monitoring unit	yes	yes	yes
AFCI compliant to UL 1699B	yes	yes	yes
General Data			
Dimensions (W / H / D) in inch	14.2/25.6/7	14.2/25.6/7.4	14.2/25.6/7.4
Weight	22Kg/48.5lb	26Kg/57.3lb	26Kg/57.3lb
Operating temperature range	-25..+60°C / (-13...+ 140°F)	-25..+60°C / (-13...+ 140°F)	-25..+60°C / (-13...+ 140°F)
Full load temperature range	-25..+45°C / (-13..+ 113°F)	-25..+45°C / (-13..+ 113°F)	-25..+45°C / (-13..+ 113°F)
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)
Altitude	Up to 2000m(6560ft) without power de-rating	Up to 2000m(6560ft) without power de-rating	Up to 2000m(6560ft) without power de-rating
Relative humidity	100%	100%	100%
Consumption: operating(standby) / night	< 5W / < 0.5 W	< 5W / < 0.5 W	< 5W / < 0.5 W
Topology	Transformerless	Transformerless	Transformerless
Cooling concept	Natural	Natural	Natural
Enclosure	Type 3R	Type 3R	Type 3R
Features			
DC connection	Screw terminal	Screw terminal	Screw terminal
AC connection	Screw terminal	Screw terminal	Screw terminal
Display	LCD	LCD	LCD
Interfaces: RS485/RS232/RF/WIFI/Ethernet	yes/yes/opt/opt/opt	yes/yes/opt/opt/opt	yes/yes/opt/opt/opt
Warranty: 10 years / 15 years	yes / opt	yes / opt	yes / opt
Certificates and Approvals			