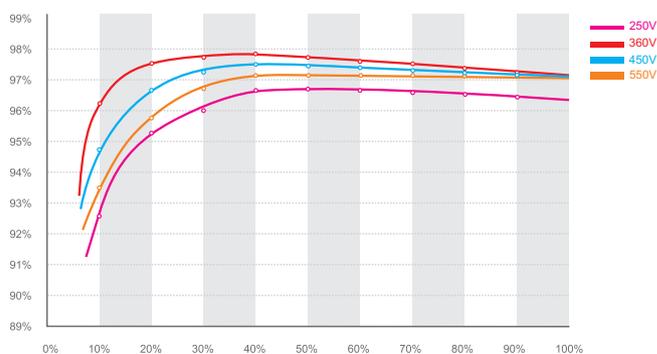




## Leading - edge Technology

- ▶ Maximum efficiency of 97.8% and wide input voltage range
- ▶ Internal DC switch
- ▶ Compact design
- ▶ MTL - String
- ▶ Ethernet / RF technology / Wi-Fi
- ▶ Sound control
- ▶ Easy installation
- ▶ Transformerless GT topology
- ▶ Comprehensive Growatt warranty program

Growatt 5000 efficiency



## GROWATT NEW ENERGY TECHNOLOGY Co.,LTD

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Datasheet	Growatt 4000	Growatt 4400	Growatt 5000
<b>Input Data</b>			
Max. recommended PV power (for module STC)	4600W	5000W	5800W
Max. DC voltage	580V	580V	580V
Start voltage	120V	120V	120V
PV voltage range	90V - 580V	90V - 580V	90V - 580V
MPPT work voltage range/nominal voltage	95V-580V/360V	95V-580V/360V	95V-580V/360V
Full load dc voltage range	250V - 500V	250V - 500V	250V - 500V
Number of MPP trackers /strings per MPP tracker	1 / 2	1 / 2	1 / 3
Max. input current of tracker	20A	20A	20A
Max. input current per string of tracker	20A	20A	20A
<b>Output (AC)</b>			
Rated AC output power	3680W	4200W	4600W
Max. AC apparent power	4000VA	4400VA	5000VA
Max. output current	16A	21A	25A
AC nominal voltage; range	220V/230V/240V; 180Vac-280Vac	220V/230V/240V; 180Vac-280Vac	220V/230V/240V; 180Vac-280Vac
AC grid frequency ;range	50, 60Hz;±5Hz	50, 60Hz;±5Hz	50, 60Hz;±5Hz
Power factor at rate power	1	1	1
THDI	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase
<b>Efficiency</b>			
Max. efficiency	97.8%	97.8%	97.8%
Euro-eta	97.4%	97.4%	97.4%
MPPT efficiency	99.5%	99.5%	99.5%
<b>Protection Devices</b>			
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
<b>General Data</b>			
Dimensions (W / H / D)	406/406/192 mm	406/406/192 mm	406/406/192 mm
Weight	21kg	21kg	21kg
Operating temperature range	- 25°C ... +60°C	- 25°C ... +60°C	- 25°C ... +60°C
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)
Self-Consumption (night)	<0.5W	<0.5W	<0.5W
Topology	Transformerless	Transformerless	Transformerless
Cooling concept	Natural	Natural	Natural
Environmental Protection Rating	IP 65	IP 65	IP 65
Altitude	2000m without derating	2000m without derating	2000m without derating
Relative Humidity	100%	100%	100%
<b>Features</b>			
DC connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
AC connection	Screw terminal	Screw terminal	Screw terminal
Display	LCD	LCD	LCD
Interfaces: RS232/RS485/ Ethernet/RF/WiFi	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
<b>Certificates and Approvals</b>			