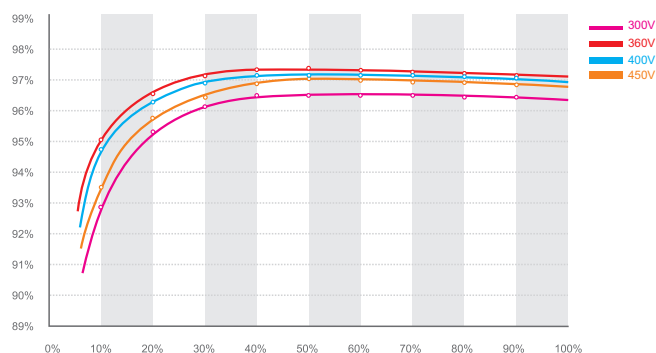




## Leading - edge Technology

- ▶ Maximum efficiency of 97.3% and wide input voltage range
- ▶ Internal DC switch
- ▶ Transformerless GT topology
- ▶ Compact design
- ▶ MTL - String
- ▶ Ethernet / RF technology / Wi-Fi
- ▶ Sound control
- ▶ Easy installation
- ▶ Comprehensive Growatt warranty program

Growatt 3000 efficiency



## GROWATT NEW ENERGY TECHNOLOGY Co.,LTD

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Datasheet	Growatt 1000	Growatt 1500	Growatt 2000	Growatt 3000
<b>Input Data</b>				
Max. DC power	1300W	1900W	2500W	3300W
Max. DC voltage	450V	450V	500V	500V
Start voltage	90V	90V	120V	120V
PV voltage range	70V - 450V	70V - 450V	90V - 500V	90V - 500V
MPPT work voltage range/ nominal voltage	70V-450V/180V	70V-450V/360V	95V-500V/360V	95V-500V/360V
Full load dc voltage range	110V - 400V	175V - 400V	195V-450V	250V - 450V
Number of MPP trackers /strings per MPP tracker	1 / 1	1 / 1	1 / 2	1 / 2
Max. input current of tracker	10A	10A	12A	15A
Max. input current per string of tracker	10A	10A	12A	15A
<b>Output (AC)</b>				
Rated AC output power	1000W	1600W	2000W	2850W
Max. AC power	1100W	1650W	2200W	2850W
Max. output current	5.5A	8A	11A	15A
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	50, 60Hz;±5Hz	50, 60Hz;±5Hz	50, 60Hz;±5Hz	50, 60Hz;±5Hz
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%	97.3%	97.3%
Euro-eta	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 for each MPPT	yes	yes	yes	yes
Output over current protection	yes	yes	yes	yes
Output 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
<b>General Data</b>				
Dimensions (W / H / D)	360/329/132 mm	360/329/132 mm	360/329/132 mm	360/329/132 mm
Weight	11.5 kg	11.5 kg	11.7 kg	12.2kg
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)
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
Altitude	2000m without derating	2000m without derating	2000m without derating	2000m without derating
Relative Humidity	0~100%	0~100%	0~100%	0~100%
<b>Features</b>				
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/ Ethernet/RF/WiFi	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
<b>Certificates and Approvals</b>				