

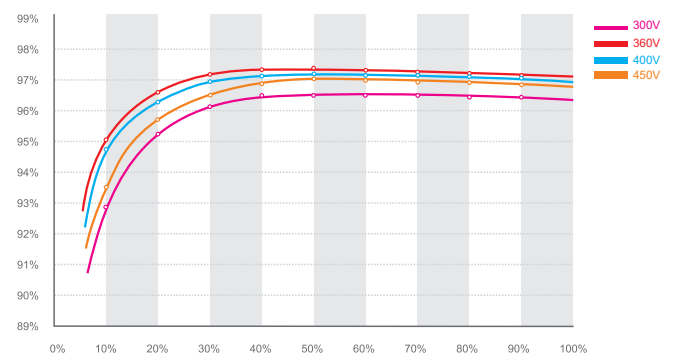
## Growatt 1000S / 1500S



### Leading - edge Technology

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

Growatt 1500S efficiency



### GROWATT NEW ENERGY TECHNOLOGY Co.,LTD

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Datasheet	Growatt 1000S	Growatt 1500S
<b>Input Data</b>		
Max. DC power	1300W	1900W
Max. DC voltage	450V	450V
Start voltage	80V	80V
PV voltage range	70V - 450V	70V - 450V
MPPT work voltage range/ nominal voltage	70V-450V/180V	70V-450V/250V
Full load dc voltage range	110V - 400V	175V-400V
Number of MPP trackers /strings per MPP tracker	1 / 1	1 / 1
Max. input current of tracker	10A	10A
Max. input current per string of tracker	10A	10A
<b>Output (AC)</b>		
Rated AC output power	1000W	1600W
Max. AC power	1000W	1650W
Max. output current	4.6A	7.5A
AC nominal voltage; range	220V/230V/240V; 180Vac-280Vac	220V/230V/240V; 180Vac-280Vac
AC grid frequency ;range	50, 60Hz; ±5Hz	50, 60Hz; ±5Hz
Power factor	1	
THDI	<3%	<3%
AC connection	Single phase	Single phase
<b>Efficiency</b>		
Max. efficiency	97%	97%
Euro-eta	95.5%	96.5%
MPPT efficiency	99.5%	99.5%
<b>Protection Devices</b>		
DC reverse polarity protection	yes	yes
DC switch for each MPPT	yes	yes
Output over current protection	yes	yes
Output overvoltage 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)	271/267/127 mm	271/267/127mm
Weight	5 kg	5 kg
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)
Self-Consumption (night)	< 0.5 W	< 0.5 W
Topology	Transformerless	Transformerless
Cooling concept	Natural	Natural
Environmental Protection Rating	IP 65	IP 65
Altitude	2000m without derating	2000m without derating
Relative Humidity	0~100%	0~100%
<b>Features</b>		
DC connection	H4/MC4(opt)	H4/MC4(opt)
AC connection	Connector	Connector
Display	LCD	LCD
Interfaces: RS232/Ethernet /RF/WiFi	yes / opt/ opt / opt	yes / opt/ opt / opt
Warranty: 5 years / 10 years	yes / opt	yes / opt
<b>Certificates and Approvals</b>		