

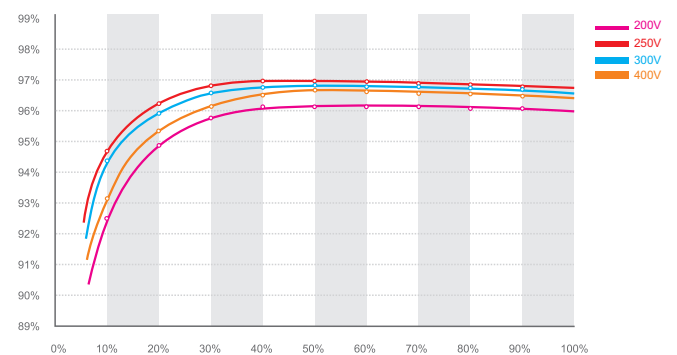
## Growatt 1000-S / 1500-S / 2000-S



### 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



**EU-SOLAR LTD.**

A: No.14 Abaliget Street, Pecs, Hungary

T: + 36 20 800 4000

E: petreandras@growatt.hu

Datasheet	Growatt 1000-S	Growatt 1500-S	Growatt 2000-S
<b>Input data (DC)</b>			
Max. recommended PV power (for module STC)	1300W	1900W	2300W
Max. DC voltage	450V	450V	450V
Start voltage	80V	80V	80V
PV voltage range	70V-450V	70V-450V	70V-450V
MPP work voltage range/ nominal voltage	70V-450V/180V	70V-450V/250V	70V-450V/250V
Full load dc voltage range	110V-400V	175V-400V	200V-400V
Max. input current	10A	10A	10A
Max. input current per string	10A	10A	10A
Number of independent MPP trackers /strings per MPP tracker	1/1	1/1	1/1
<b>Output (AC)</b>			
Rated AC output power	1000W	1600W	2000W
Max. AC power	1000W	1650W	2000W
Max. output current	4.6A	7.5A	9A
AC nominal voltage; range	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
Power factor	1	1	1
THDI	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase
<b>Efficiency</b>			
Max. efficiency	97%	97%	97%
Euro weighted efficiency	95.5%	96.5%	96.5%
MPPT efficiency	99.5%	99.5%	99.5%
<b>Protection Devices</b>			
DC reverse polarity protection	yes	yes	yes
DC switch rating for each MPPT	yes	yes	yes
Output over current protection	yes	yes	yes
Output over voltage 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) in mm	271*267*127	271*267*127	271*267*127
Weight	5KG	5KG	5.5KG
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
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)
Altitude	2000m(6560ft) without derating	2000m(6560ft) without derating	2000m(6560ft) without derating
Self-Consumption night	<0.5 W	<0.5 W	<0.5 W
Topology	Transformerless	Transformerless	Transformerless
Cooling concept	Natural	Natural	Natural
Environmental Protection Rating	IP 65	IP 65	IP 65
Relative humidity	100%	100%	100%
<b>Features</b>			
DC connection	H4	H4	H4
AC connection	Connector	Connector	Connector
Display	LCD	LCD	LCD
Interfaces: RS232/ RF/ Wi-Fi/ Ethernet	yes /opt/opt/opt	yes /opt/opt/opt	yes /opt/opt/opt
Warranty: 5 years / 10 years	yes /opt	yes /opt	yes /opt
<b>Certificates and Approvals</b>			