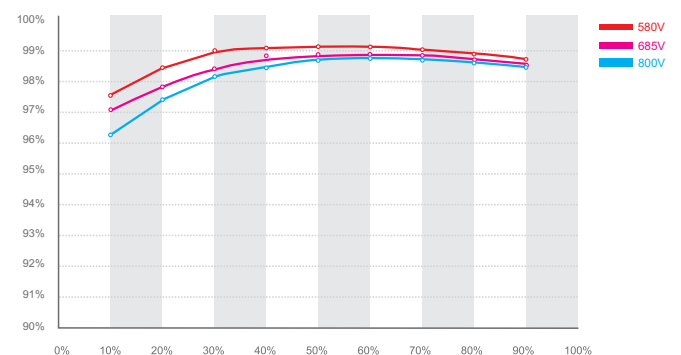


Leading - edge Technology

- ▶ Wide input voltage, DC input voltage up to 1000V
- ▶ Maximum efficiency of 99%
- ▶ Internal DC Switch
- ▶ Compact design, low noise technique
- ▶ Fanless design, easy maintenance
- ▶ IP65 compatible
- ▶ Easy installation
- ▶ DC surge arrestor optional
- ▶ RS232/485 communication interface(Wi-Fi adapter optional)

Growatt 20000TL3-HE efficiency



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Datasheet

Growatt 18000 TL3-HE

Growatt 20000 TL3- HE

Input Data

Max. DC power	18700W	20800W
Max. DC voltage	1000V	1000V
Start voltage	400V	400V
PV voltage range	580V - 1000V	580V - 1000V
MPPT work voltage range / nominal voltage	580V-1000V/580V	580V-1000V/580V
Full load dc voltage range	580V - 800V	580V - 800V
Max. input current	33A	36A
Max. input current per string	33A	36A
Number of independent MPP trackers/strings per MPP tracker	1/6	1/6

Output (AC)

Rated AC output power	18KW	20KW
Max AC apparent power	18KVA	20KVA
Max. output current	29A	32A
AC nominal voltage; range	230V/400V; 184~275V	230V/400V; 184~275V
AC grid frequency; range	50/60Hz/44-55Hz/54-65Hz	50/60Hz/44-55Hz/54-65Hz
Power factor	0.8leading - 0.8lagging	0.8leading - 0.8lagging
THDI	<3%	<3%
AC grid connection type	3/N/PE	3/N/PE

Efficiency

Max. efficiency	99%	99%
Euro - eta	98.5%	98.5%
MPPT efficiency	99.5%	99.5%

Protection Devices

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

General Data

Dimensions (W / H / D)	600/515/240 mm	600/515/240 mm
Weight	37kg	37kg
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emission (typical)	≤45 dB(A)	≤45 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
Relative Humidity	0~100% (Non-condensing)	0~100% (Non-condensing)

Features

DC connection	H4/MC4(opt)	H4/MC4(opt)
AC connection	Screw terminal	Screw terminal
Display	LCD	LCD
Interfaces: RS232/RS485/ Ethernet/RF/Wi-Fi	yes / yes / opt / opt / opt	yes / yes / opt / opt / opt
Warranty: 5 years / 10 years	yes / opt	yes / opt

Certificates and Approvals