



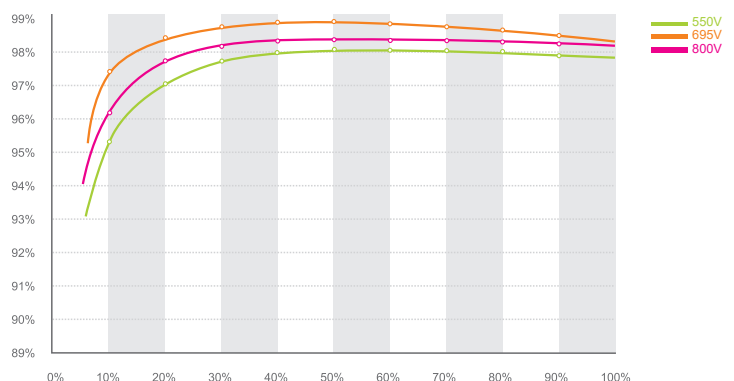
## Growatt 33000TL3-S/40000TL3-S



### Leading - edge Technology

- Maximum efficiency of 98.8%
- Compact design
- Sound control
- Multi MPP controller
- MTL string
- Interanl DC switch
- Optional AC switch
- Transformerless
- Smart string monitoring
- Supporting AC power supply
- Easy installation
- Comprehensive warranty program
- Optional Fuse protection/Anti-PID/AFCI

Growatt 40000 TL3-S efficiency





Datasheet	Growatt 33000TL3-S	Growatt 40000TL3-S
<b>Input Data</b>		
Max. DC power	36300W	44000W
Max DC voltage	1000V	1000V
Start Voltage	250V	250V
PV voltage range	200V - 1000V	200V - 1000V
Nominal voltage	580V	695V
Full load MPP voltage range	480V - 800V	570V - 800V
Max. input current	36A / 36A	36A / 36A
Max. input current per string	12A	12A
Number of MPP trackers / strings per MPP tracker	2/4	2/4
<b>Output (AC)</b>		
Rated AC output power	33KW	40KW
Max. AC apparent power	33KVA	40KVA
Max. output current	50A	50A
AC nominal voltage	230V/400V	277V/480V
AC grid frequency	50/60Hz	50/60Hz
Power factor	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging
THDi	<3%	<3%
AC grid connection type	3W+N+PE	3W+PE
<b>Efficiency</b>		
Max. efficiency	98.8%	98.8%
Eup - eta	98.4%	98.4%
MPPT efficiency	99.5%	99.5%
<b>Protection Devices</b>		
DC reverse polarity protection	yes	yes
DC Switch for each MPPT	yes	yes
AC Switch	opt	opt
DC Surge protection	Class II	Class II
Ground fault monitoring	yes	yes
Output short circuit protection	yes	yes
AC Surge protection	Class II	Class II
String Fuse protection	opt	opt
String fault monitoring	yes	yes
Anti-PID protection	opt	opt
AFCI	opt	opt
<b>General Data</b>		
Dimensions (W / H / D)	510/755/272 mm	510/755/272 mm
Weight	48kg	48kg
Operating temperature range	-25 °C ... +60 °C (with derating above45°C)	-25 °C ... +60 °C (with derating above45°C)
Noise emission (typical)	≤ 40 dB(A)	≤ 40 dB(A)
Self-Consumption (night)	<6W(AC power supply)	<6W(AC power supply)
Topology	Transformerless	Transformerless
Cooling concept	Smart cooling	Smart cooling
Environmental Protection Rating	IP 65	IP 65
Altitude	2000m without derating	2000m without derating
Relative Humidity	0~100%	0~100%
<b>Features</b>		
Display	Graphic LCD	Graphic LCD
Interfaces: RS232/R485/ WiFi/LAN/GPRS	yes / yes / opt / opt / opt	yes / yes / opt / opt / opt
Warranty:5 years / 10 years	yes / opt	yes / opt
<b>Certificates and Approvals</b>		
IEC 62109, CE, G59, VDE 0126-1-1, CQC		