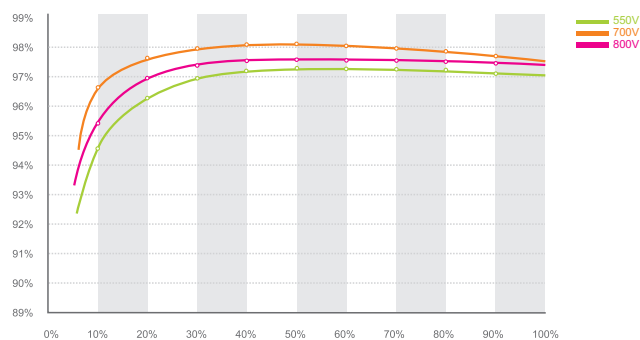




Leading - edge Technology

- ▶ DC input voltage up to 1000V
- ▶ Maximum efficiency of 98.2%
- ▶ Internal DC switch
- ▶ Transformerless
- ▶ Compact design
- ▶ Multi MPP controller
- ▶ MTL - String
- ▶ Ethernet / RF technology / WiFi
- ▶ Sound control
- ▶ Easy installation
- ▶ Comprehensive Growatt warranty program

Growatt 40000 TL3 efficiency



GROWATT NEW ENERGY TECHNOLOGY Co.,LTD

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Datasheet	Growatt 30000TL3	Growatt 33000TL3	Growatt 40000TL3
Input Data			
Max. DC power	34500W	36300W	44000W
Max DC voltage	1000V	1000V	1000V
Start Voltage	250V	250V	250V
PV voltage range	180V - 1000V	180V - 1000V	180V - 1000V
Nominal voltage	600V	600V	700V
Full load MPP voltage range	460V - 800V	460V - 800V	550V - 800V
Max. input current	35A / 35A	38A / 38A	38A / 38A
Max. input current per string	12A	12A	12A
Number of MPP trackers/ strings per MPP tracker	2/4	2/4	2/4
Output (AC)			
Rated AC output power	30KW	33KW	40KW
Max. AC apparent power	30KVA	33KVA	40KVA
Max. output current	45.5A	50A	50A
AC nominal voltage;range	230V/400V;184~275V	230V/400V;184~275V	277V/480V;245-305V
AC grid frequency	50/60Hz	50/60Hz	50/60Hz
Power factor	0.9 leading - 0.9 lagging	0.9 leading - 0.9 lagging	0.9 leading - 0.9 lagging
THDi @Full load&Thdv<1%	<3%	<3%	<3%
AC grid connection type	3/N/PE	3/N/PE	3W+PE
Efficiency			
Max. efficiency	98.2%	98.2%	98.2%
Euro - eta	97.6%	97.8%	97.8%
MPPT efficiency	99.5%	99.5%	99.5%
Protection Devices			
DC reverse polarity protection	yes	yes	yes
DC switch for each MPPT	yes	yes	yes
Output over current protection	yes	yes	yes
Output AC overvoltage 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
General Data			
Dimensions (W / H / D)	551/740/276 mm	551/740/276 mm	551/740/276 mm
Weight	61.6kg	61.6kg	61.6kg
Operating temperature range	-25 °C ... +60 °C (with derating above45°C)	-25 °C ... +60 °C (with derating above45°C)	-25 °C ... +60 °C (with derating above45°C)
Noise emission (typical)	≤ 55 dB(A)	≤ 55 dB(A)	≤ 55 dB(A)
Self-Consumption (night)	<0.5W	<0.5W	<0.5W
Topology	Transformerless	Transformerless	Transformerless
Cooling concept	Smart cooling	Smart cooling	Smart cooling
Environmental Protection Rating	IP 65	IP 65	IP 65
Altitude	2000m without derating	2000m without derating	2000m without derating
Relative Humidity	0~100%	0~100%	0~100%
Features			
DC connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
AC connection	Screw terminal	Screw terminal	Screw terminal
Display	LCD	LCD	LCD
Interfaces: RS232/R485/ Ethernet/RF/WiFi	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

Certificates and Approvals