

Specifications	Growatt 4000TL	Growatt 4400TL	Growatt 5000TL
Input data (DC)			
Max. DC power	4200W	4600W	5000W/5200W*
Max. DC voltage	580V	580V	580V
Start voltage	150V	150V	150V
PV voltage range	100V-580V	100V-580V	100V-580V
MPP work voltage range/ nominal voltage	120V-580V/360V	120V-580V/360V	120V-580V/360V
Full load dc voltage range	250V-500V	250V-500V	250V-500V
Max. input current	20A	20A	20A
Max. input current per string	20A	20A	20A
Number of independent MPP trackers /strings per MPP tracker	1/3	1/3	1/3
Output (AC)			
Rated AC output power	3680W	4200W	4600W
Max. AC power	4000W	4400W	4600/5000W*
Max. output current	16A	21A	22.7A
AC nominal voltage; range	220,230,240V; 180Vac-280Vac	220,230,240V; 180Vac-280Vac	220,230,240V; 180Vac-280Vac
AC grid frequency; range	50,60Hz; ± 5 Hz	50,60Hz; ± 5 Hz	50,60Hz; ± 5 Hz
Power factor	1	1	1
THDI	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase
Efficiency			
Max. efficiency	97.8%	97.8%	97.8%
Euro weighted efficiency	97.4%	97.4%	97.4%
MPPT efficiency	99.5%	99.5%	99.5%
Protection devices			
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
General Data			
Dimensions (W / H / D) in mm	406/406/192	406/406/192	406/406/192
Weight	21KG	21KG	21KG
Operating temperature range	-25°C ... +60°C (-13...+140°F) with derating above 50°C /122°F	-25°C ... +60°C (-13...+140°F) with derating above 50°C /122°F	-25°C ... +60°C (-13...+140°F) with derating above 50°C /122°F
Noise emission (typical)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)
Altitude	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	IP65	IP65	IP65
Relative humidity	95%	95%	95%
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: RS485/RS232/Bluetooth / RF/Zigbee/Wifi	yes/yes/opt/opt /opt/opt	yes/yes/opt/opt /opt/opt	yes/yes/opt/opt /opt/opt
Warranty: 5 years / 10 years	yes /opt	yes /opt	yes /opt
		CE、VDE 0126-1-1、DK5940、	

Certificates and approvals	CE, G83/1-1	G83/1-1, G59/2, RD1663, EN50438, IEC-62109, ENEL-Guide
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