

13 Technical Data

13.1 Specification

Model	Growatt 2500MTL-S	Growatt 3000MTL-S	Growatt 3600MTL-S
Specifications			
Input data			
Max. recommended PV power(for module STC)	2900W	3500W	4100W
Max. DC voltage	500V	500V	550V
Start voltage	100V	100V	100V
PV voltage range	70V-500V	70V-500V	70V-550V
MPP voltage range/ nominal voltage	80V-500V /360V	80V-500V /360V	80V-550V /360V
Full load dc voltage range	130V-450V	160V-450V	190V-500V
Max. input current of trackerA/trackerB	10A/10A	10A/10A	10A/10A
Max. input current per string of tracker A/tracker B	10A/10A	10A/10A	10A/10A
Number of independent MPP inputs / strings per MPP input	2/1	2/1	2/1
Output (AC)			
Nominal AC output power	2500W	3000W	3600W
Max. AC apparent power	2500VA	3000VA	3600VA
Max. output current	11.3A	13.6A	16.3A
AC nominal voltage; range	220V/230V/240V; 180Vac-280Vac		
AC grid frequency; range	50,60Hz;±5 Hz	50,60Hz;±5 Hz	50,60Hz;±5 Hz
Phase factor at rate power	1	1	1
Displacement power factor, configurable*	0.8leading... 0.95lagging	0.8leading... 0.95lagging	0.8leading... 0.95lagging
THDI	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase
Efficiency			
Max. efficiency	97.4%	97.4%	97.5%
Euro - weighted efficiency	97%	97%	97%
MPPT efficiency	99.5%	99.5%	99.5%

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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 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)	355/419/138mm	355/419/138mm	355/419/138mm
Weight	14KG	14KG	14KG
Operating temperature range	-25...+60°C (-13...+ 140°F) with derating above 45°C (113°F)		
Noise emission (typical)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)
Altitude	Up to 2000m (6560ft) without power derating		
Relative humidity	100%	100%	100%
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
Features			
DC connection:	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
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
Certificates and approvals	CE,IEC62109,VDE0126-1-1,G83,G59,AS4777,VDE-AR-N-4105, NBT32004-2013,EN50438,CEI-021,INMETRO		