

# Growatt 10000~15000TL3-S

- Max. Efficiency 98.4%
- Dual MPP trackers
- Supports export limitation
- Integrated DC switch
- Max. DC voltage 1000VDC
- Natural cooling



P O W E R  
- I N G O  
T O M O -  
R R O W O



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Datasheet	10000TL3-S-AU	12000TL3-S	13000TL3-S	15000TL3-S
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### Input Data

Max. recommended PV power (for module STC)	13000W	15600W	16900W	19500W
Max. DC voltage	1100V	1100V	1100V	1100V
Start Voltage	160V	160V	160V	160V
MPPT DC voltage range	480V-850V	480V-850V	480V-850V	520V-850V
Nominal voltage	600V	600V	600V	600V
Max. input current	20A/10A	20A/10A	20A/10A	20A/10A
Number of independent MPP trackers/strings per MPP tracker	2/2+1	2/2+1	2/2+1	2/2+1

### Output (AC)

Rated AC output power	10kW	12kW	13kW	15kW
Max. AC apparent power	11kVA	13.2kVA	14.3kVA	16.5kVA
Max. output current	16.7A	19A	20.6A	23.8A
Out put AC voltage	230V/400V 50/60Hz	230V/400V 50/60Hz	230V/400V 50/60Hz	230V/400V 50/60Hz
Power factor	0.8leading - 0.8laging	0.8leading - 0.8laging	0.8leading - 0.8laging	0.8leading - 0.8laging
THDI	<3%	<3%	<3%	<3%
AC grid connection type	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE

### Efficiency

Max. efficiency	98.3%	98.3%	98.3%	98.3%
Euro - eta	98%	98%	98%	98%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%

### Protection Devices

DC reverse polarity protection	yes	yes	yes	yes
DC switch	yes	yes	yes	yes
Output over current protection	yes	yes	yes	yes
Output AC overvoltage Protection - Varistor	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes
Integrated all-pole sensitive leakage current monitoring unit	yes	yes	yes	yes

### General Data

Dimensions (W / H / D) in mm	480/448/200	480/448/200	480/448/200	480/448/200
Weight	23.5kg	23.5kg	23.5kg	23.5kg
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emission (typical)	≤35 dB(A)	≤35 dB(A)	≤35 dB(A)	≤35 dB(A)
Self-Consumption (night)	<0.5W	<0.5W	<0.5W	<0.5W
Topology	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Natural	Natural	Natural	Natural
Environmental Protection Rating	IP65	IP65	IP65	IP65
Altitude	3000m	3000m	3000m	3000m
Relative Humidity	0~100%	0~100%	0~100%	0~100%

### Features

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

CE, IEC 62109-1/2, VDE 0126-1-1, Greece, VFR 2014, VDE-AR-N4105, G83, EN50438, CEI 0-21, AS4777, IEC 61727, IEC 62116, CQC