

# Growatt 17000~25000TL3-S

- Max. Efficiency 99%
- Dual MPP trackers
- Supports Export limitation
- Integrated DC switch
- String fuse and string monitoring
- PID-recovery function
- Natural cooling
- Type II DC and AC SPDs



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



Datasheet	17000TL3-S	20000TL3-S	25000TL3-NS
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### Input Data

Max. recommended PV power (for module STC)	21250W	25000W	31250W
Max. DC voltage	1000V	1000V	1000V
Start Voltage	250V	250V	250V
PV voltage range	200V - 1000V	200V - 1000V	200V - 1000V
Nominal voltage	580V	580V	580V
Full load MPP voltage range	400V - 800V	400V - 800V	400V - 800V
Max. input current	37.5A/37.5A	37.5A/37.5A	37.5A/37.5A
Max. input current per string	12.5A	12.5A	12.5A
Number of independent MPP trackers/strings per MPP tracker	2/3	2/3	2/3

### Output (AC)

Rated AC output power	17000W	20000W	25000W
Max. AC apparent power	18800VA	22200VA	27700VA
Max. output current	27.5A	32.2A	40.3A
AC nominal voltage	230V/400V	230V/400V	230V/400V
AC grid frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Power factor	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging
THDI	<3%	<3%	<3%
AC grid connection type	3W+N+PE	3W+N+PE	3W+N+PE

### Efficiency

Max. efficiency	98.7%	98.7%	98.7%
Euro - eta	98.4%	98.4%	98.4%
MPPT efficiency	99.5%	99.5%	99.5%

### Protection Devices

DC reverse polarity protection	yes	yes	yes
DC Switch	yes	yes	yes
DC Surge protection	Typell	Typell	Typell
Ground fault monitoring	yes	yes	yes
Output short circuit protection	yes	yes	yes
AC Surge protection	Typell	Typell	Typell
String Fuse protection	yes	yes	yes
String fault monitoring	yes	yes	yes
Anti-PID protection	yes	yes	yes

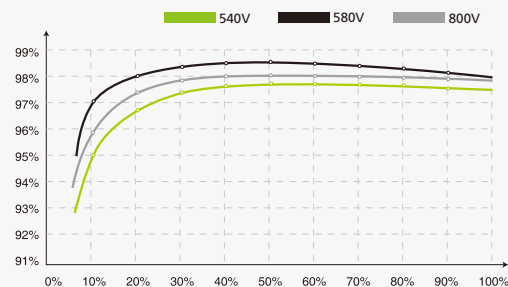
### General Data

Dimensions (W / H / D) in mm	470/754/270	470/754/270	470/754/270
Weight	48kg	48kg	48kg
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emission (typical)	≤40 dB(A)	≤40 dB(A)	≤40 dB(A)
Self-Consumption (night)	<1W	<1W	<1W
Topology	Transformerless	Transformerless	Transformerless
Cooling concept	Smart cooling	Smart cooling	Smart cooling
Environmental Protection Rating	IP65	IP65	IP65
Altitude	4000m	4000m	4000m
Relative Humidity	0~100%	0~100%	0~100%

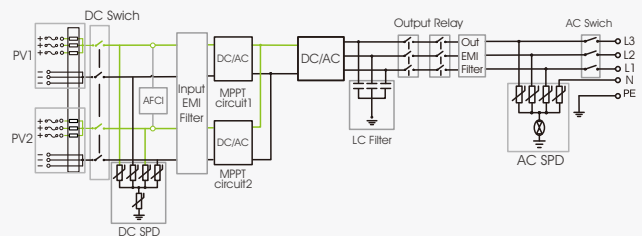
### Features

Display	LED + LCD	LED + LCD	LED + LCD
Interfaces: RS232/R485/WIFI	yes / yes / opt	yes / yes / opt	yes / yes / opt
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt

Growatt 25000TL3-S efficiency



Growatt 17-25kTL3-S topology



CE, VDE 0126-1-1, VDE-AR-N4105, G59, CEI 0-21, CEI 0-16, VFR 2014, EN50438, IEC 62116, IEC 61727, IEC 61683, IEC 60068