

Growatt 30000~50000 TL3-(N)SE

- Max. Efficiency 99%
- Max DC voltage 1100V
- Dual MPP trackers
- Type II DC and AC SPDs
- Modular IGBT and thin-film capacitor design



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Growatt 古瑞瓦特

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	30000TL3-SE	33000TL3-SE	40000TL3-SE	40000TL3-NSE	50000TL3-SE
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Input Data (DC)					
Max recommended PV Power (for module STC)	37500W	41250W	50000W	50000W	60000W
Max DC voltage	1000V	1000V	1000V	1100V	1100V
Start Voltage	250V	250V	250V	250V	250V
MPPT working voltage range/ Nominal voltage	200V-1000V/580V	200V-1000V/580V	200V-1000V/695V	200V-1100V/580V	200V-1100V/720V
Max. input current A/B	34A/34A	38A/38A	38A/38A	38A/38A	38A/38A
Max. input current per string	12A	12A	12A	12A	12A
Number of MPP trackers / strings per MPP tracker	2/4+4	2/4+4	2/4+4	2/4+4	2/4+4

Output (AC)					
Rated AC output power	30kW	33kW	40kW	40kW	50kW
Max. AC apparent power	33kVA	33kVA	40kVA	44.4kVA	55.5kVA
Max. output current	44A	48A	48A	64.5A	64.5A
Rated output voltage/range	400V/340V~440V	400V/340V~440V	480V/422V~528V	400V/340V~440V	500V/425V~560V
Rated grid frequency/range	50Hz/60Hz / ±5Hz	50Hz/60Hz / ±5Hz	50Hz/60Hz / ±5Hz	50Hz/60Hz / ±5Hz	50Hz/60Hz / ±5Hz
Power factor	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging
THDi	<3%	<3%	<3%	<3%	<3%
AC grid connection type	3W+N+PE	3W+N+PE	3W+PE	3W+N+PE	3W+PE

Efficiency					
Max. efficiency	98.9%	98.9%	99%	99%	99%
Euro - eta	98.4%	98.4%	98.5%	98.5%	98.5%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%

Protection Devices					
DC reverse polarity protection	Yes	Yes	Yes	Yes	Yes
DC Switch	Yes	Yes	Yes	Yes	Yes
DC Surge protection	Class II	Class II ^{0~100%}	Class II	Class II	Class II
Insulation resistance detection	Yes	Yes	Yes	Yes	Yes
AC short circuit protection	Yes	Yes	Yes	Yes	Yes
AC Surge protection	Class II	Class II	Class II	Class II	Class II

General data					
Dimensions (W / H / D) in mm	440/660/270	440/660/270	440/660/270	440/660/270	440/660/270
Weight	46kg	46kg	46kg	46kg	46kg
Operating temperature range	-25°C ... +60°C	-25°C ... +60°C	-25°C ... +60°C	-25°C ... +60°C	-25°C ... +60°C
Noise emission	≤50dB(A)	≤50dB(A)	≤50dB(A)	≤50dB(A)	≤50dB(A)
Altitude	4000m	4000m	4000m	4000m	4000m
Self-consumption night	<1W	<1W	<1W	<1W	<1W
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Smart cooling	Smart cooling	Smart cooling	Smart cooling	Smart cooling
Environmental Protection Rating	IP65	IP65	IP65	IP65	IP65
Relative humidity	0~100%	0~100%	0~100%	0~100%	0~100%

Features					
Display	Graphic LCD	Graphic LCD	Graphic LCD	Graphic LCD	Graphic LCD
Interfaces: RS232/R485/WiFi/LAN/GPRS	yes / yes / opt / opt / opt	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	Standard/optional	Standard/optional	Standard/optional	Standard/optional	Standard/optional

CQC, CE, VDE0126-1-1, VDE-AR-N4105, EN50438, IEC62116, IEC61727, IEC60068, IEC61683, PEA

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