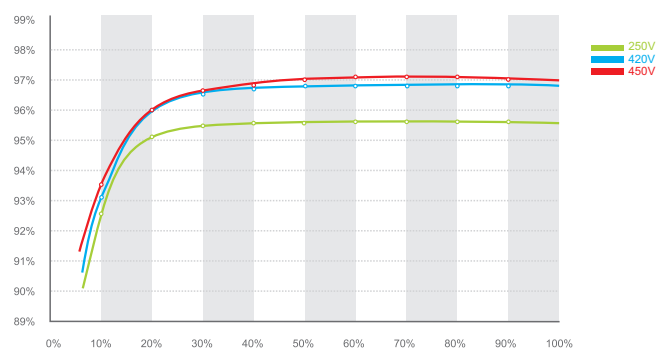




## Leading - edge Technology

- ▶ High efficiency of 97.5% delivery more energy
- ▶ Dual independent MPP tracking lead to optimal energy harvesting
- ▶ Integrated DC disconnect switch
- ▶ Consistent and stable performance across entire input voltage and output power range
- ▶ True three-phase transformerless GT topology
- ▶ Bluetooth / RF technology / Wi-Fi
- ▶ Sound control, easy installation maintenance procedure
- ▶ Newest generation IGBTs and advanced MPPT algorithms
- ▶ Comprehensive protection for IGBTs, overvoltage, islanding, short-circuit, overload, overheat, etc
- ▶ Flexible system design with safety fuse module and lightning proof module

20k efficiency



## GROWATT NEW ENERGY TECHNOLOGY Co.,LTD

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	Growatt 10000TL3-US	Growatt 12000TL3-US	Growatt 18000TL3-US	Growatt 20000TL3-US
<b>Input Data</b>				
Max. DC power	10500W	12500W	18750W	20850W
Max. DC voltage	600V	600V	600V	600V
Start voltage	120V	120V	120V	120V
DC nominal voltage	375V	375V	375V	375V
PV voltage range	80V - 600V	80V - 600V	80V - 600V	80V - 600V
MPP voltage range (Full load)	250V - 600V	250V - 600V	250V - 600V	250V - 600V
Max. input current of the MPP trackers A / trackers B	21A / 21A	25A / 25A	38A / 38A	42A / 42A
Max. input short circuit current	32A / 32A	32A / 32A	50A / 50A	50A / 50A
Number of independent MPP trackers/strings per MPP tracker	2 / 3	2 / 3	2 / 6	2 / 6
<b>Output (AC)</b>				
Rated AC output power	10000W	12000W	18000W	20000W
Rated AC voltage	480V	480V	480V	480V
AC voltage range	422-528VAC	422-528VAC	422-528VAC	422-528VAC
AC grid frequency; range	60 Hz;59.3-60.5 Hz	60 Hz;59.3-60.5 Hz	60 Hz;59.3-60.5 Hz	60 Hz;59.3-60.5 Hz
Max. output current(cos φ=1)	12A	14.5A	21.5A	24A
Power factor (cos φ)	>0.99(0.9Leading - 0.9Lagging)	>0.99(0.9Leading - 0.9Lagging)	>0.99(0.9Leading - 0.9Lagging)	>0.99(0.9Leading - 0.9Lagging)
Harmonics	<3%	<3%	<3%	<3%
Grid connection type	3/NE	3/NE	3/NE	3/NE
<b>Efficiency</b>				
Max. efficiency	97%	97%	97.5%	97.5%
CEC-Weighted Efficiency	95.5%	95.5%	96%	96.5%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%
<b>Protectopm devices</b>				
DC switch for each MPP tracker	yes	yes	yes	yes
DC reverse-polarity protection	yes	yes	yes	yes
DC/AC over voltage protection-Varistor	yes	yes	yes	yes
DC/AC over voltage protection-DIN rail surge arrester(Optional)	Class II	Class II	Class II	Class II
DC insulation measure	yes	yes	yes	yes
AC short circuit protection	yes	yes	yes	yes
<b>General Data</b>				
Diemensions(W/H/D) in mm	530/705/247	530/705/247	650/740/247	650/740/247
Weight	46KG	46KG	63KG	63KG
Operation temperature range	-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)
Self Consumption night	< 3 W	< 3 W	< 3 W	< 3 W
Topology	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Fan Cool	Fan Cool	Fan Cool	Fan Cool
Electronics protection rating/connection area	NEMA 3R	NEMA 3R	NEMA 3R	NEMA 3R
Altitude	2000m without derating	2000m without derating	2000m without derating	2000m without derating
Relative Humidity	0~95%	0~95%	0~95%	0~95%
<b>Features</b>				
Display	Graphic	Graphic	Graphic	Graphic
Interfaces: RS232/RS485/Bluetooth/RF/Wi-Fi	yes / yes / opt / opt / opt	yes / yes / opt / opt / opt	yes / yes / opt / opt / opt	yes / yes / opt / opt / opt
Warranty: 10 years / 15 years	yes / opt	yes / opt	yes / opt	yes / opt
<b>Certificates and Approvals</b>				
UL1741,UL1998,IEEE1547,FCC part 15(class B),CSA C22.2 No.107.1				