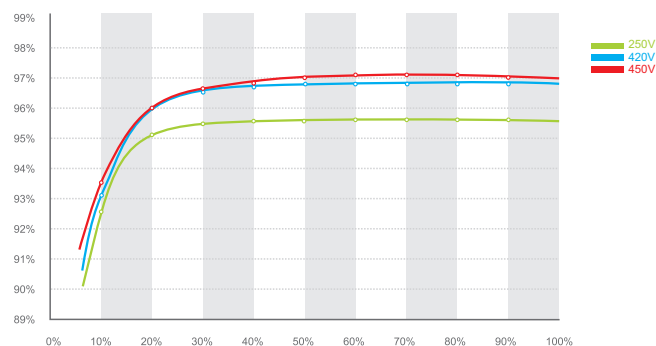




Leading - edge Technology

- ▶ 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



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	Growatt 10000TL3-US	Growatt 12000TL3-US	Growatt 18000TL3-US	Growatt 20000TL3-US
Input Data				
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
Output (AC)				
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
Efficiency				
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%
Protectopm devices				
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
General Data				
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%
Features				
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
Certificates and Approvals				
UL1741,UL1998,IEEE1547,FCC part 15(class B),CSA C22.2 No.107.1				