

Growatt 8000~10500 MTLP-S

- Maximum efficiency of 97.8%
- Compact design
- 3 MPP tracker
- Integrated DC switch
- UL1741 SA, CA Rule21 compliant



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

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Datasheet	8000MTLP-S	9000MTLP-S	10500MTLP-S
Input data (DC)			
Max. recommended PV power(for module STC)	9600W	10800W	12000W
Max. DC voltage	600V	600V	600V
Start voltage	140V	140V	140V
DC rated voltage	360V	360V	360V
MPP voltage range	110-500V	110-500V	110-500V
No. of MPP trackers	3	3	3
No. of PV strings per MPP trackers	1/1/2	1/1/2	1/1/2
Max. input current per MPP trackers	12.5A/12.5A/25A	12.5A/12.5A/25A	12.5A/12.5A/25A
Max. short-circuit current per MPP trackers	32A	32A	32A
Output data (AC)			
AC nominal power	8000W	9000W	10000W
Max. AC apparent power	8000VA	9900VA	10000VA
Nominal AC voltage	220V	220V	220V/230V
AC voltage range	184V~276V	184V~276V	184V~276V
AC grid frequency	60Hz	60Hz	50Hz/60Hz
AC grid frequency range	55~65Hz	55~65Hz	45~65Hz
Max. output current	36.2A	40.9A	45.7A
Power factor(@nominal power)	>0.99	>0.99	>0.99
Adjustable power factor	0.8leading~0.8lagging	0.8leading~0.8lagging	0.8leading~0.8lagging
THDI	<3%	<3%	<3%
AC grid connection type	L/N/PE L1/L2/N/PE	L/N/PE L1/L2/N/PE	L/N/PE L1/L2/N/PE
Efficiency			
Max. efficiency	98.1%	98.1%	98.1%
Euro-eta	97.6%	97.6%	97.6%
Protection Devices			
DC reverse-polarity protection	yes	yes	yes
DC switch	yes	yes	yes
DC Surge protection	Type II	Type II	Type II
Insulation resistance monitoring	yes	yes	yes
AC surge protection	Type III	Type III	Type III
AC short-circuit protection	yes	yes	yes
Ground fault monitoring	yes	yes	yes
Grid monitoring	yes	yes	yes
Anti-islanding protection	yes	yes	yes
Residual-current monitoring unit	yes	yes	yes
AFCI protection	opt	opt	opt
General Data			
Dimensions (W / H / D)	355*620*260mm	355*620*260mm	355*620*260mm
Weight	28kg	28kg	28kg
Operating temperature range	- 25 °C ... +60 °C (>45°C derating)	- 25 °C ... +60 °C (>45°C derating)	- 25 °C ... +60 °C (>45°C derating)
Noise emission (typical)	≤ 35 dB(A)	≤ 35 dB(A)	≤ 35 dB(A)
Altitude	4000m	4000m	4000m
Internal consumption at night	<1W	<1W	<1W
Topology	Transformerless	Transformerless	Transformerless
Cooling	Nature Convection	Nature Convection	Nature Convection
Electronics protection degree	IP65	IP65	IP65
Relative humidity	0~100%	0~100%	0~100%
DC connection	H4/MC4(optional)	H4/MC4(optional)	H4/MC4(optional)
AC connection	Cable gland+OT terminal	Cable gland+OT terminal	Cable gland+OT terminal
Features			
Display	LCD	LCD	LCD
Interfaces: RS485/WIFI/GPRS/4G/RF	yes/opt/opt/opt/opt	yes/opt/opt/opt/opt	yes/opt/opt/opt/opt
Warranty: 5 years/10 years	yes/opt	yes/opt	yes/opt

NBR16149, NBR16150, INMETRO, EN61000-6-2, EN61000-6-3, IEEEl547, FCC, IEC/EN62109-1, IEC/EN62109-2, UL1741