



**1500TL / 2000TL / 3000TL / 4400TL / 5000TL**

Model/ Specifications	Growatt 1500	Growatt 2000	Growatt 3000	Growatt 4400	Growatt 5000
<b>Input data</b>					
Max. DC power	1800W	2300W	3200W	4600W	5000W
Max. DC voltage	450V	500V	500V	580V	580V
PV voltage range MPPT	120V-450V	120V-450V	120V-450V	120V-500V	120V-500V
Full load Mpp-Voltage range	175V-430V	195V-450V	250V-450V	250V-500V	250V-500V
Max. number of parallel strings	1	2	2	3	3
Number of MPP trackers	1	1	1	1	1
MPPT input current	0~10A	0~12A	0~15A	0~20A	0~20A
Max. DC input Isc current	10A	12A	15A	20A	20A
<b>Output (AC)</b>					
Nominal AC output	1600W	2000W	2850W	4200W	4600W
Max. AC power	1650W	2000W	3000W	4400W	4600W
Max. output current	8A	11A	13A	21A	22,3A
AC voltage range	200Vac-250Vac	200Vac-250Vac	200Vac-250Vac	200Vac-250Vac	200Vac-250Vac
AC grid frequency range	40.1HZ-50.9Hz	40.1HZ-50.9Hz	40.1HZ-50.9Hz	40.1HZ-50.9Hz	40.1HZ-50.9Hz
Phase shift (cosφ)	1	1	1	1	1
THDI	<3%	<3%	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase	Single phase	Single phase
<b>Efficiency</b>					
Max. efficiency	97%	97%	97%	97,8%	97,8%
Euro - eat	96%	96%	96,5%	97,4%	97,4%
MPPT efficiency	99,5%	99,5%	99,5%	99,5%	99,5%
<b>Protection devices</b>					
DC reverse polarity protection	yes	yes	yes	yes	yes
AC short - circuit protection	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes
Integrated all - pole sensitiveleakage current monitoring unit	yes	yes	yes	yes	yes
<b>General Data</b>					
Dimensions (W / H / D) in mm	362/329/132	362/329/132	362/329/132	406/406/192	406/406/192
Weight	11,5KG	11,7KG	12,2KG	21KG	21KG
Operating temperaturerange	-25°C ... +60°C	-25°C...+60 °C	-25°C ... +60°C	-25°C ... +60°C	-25°C ... +60°C
Continuous full output powertemperature range	-25°C... +50 °C	-25°C...+50 °C	-25°C ... +50°C	-25°C ... +50°C	-25°C ... +50°C
Noise emission (typical)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)
Altitude	Up to 2000m without power derating				
Consumption: operating(standby) / night	<5W / < 0,5 W	<5W / < 0,5 W	<5 W / < 0,5 W	<5 W / < 0,5 W	<5 W / < 0,5 W
Topology	transformerless	transformerless	transformerless	transformerless	transformerless
Cooling concept	No fan	No fan	No fan	No fan	No fan
Installation: Indoors / Outdoors (IP65 electronics )	yes /yes	yes /yes	yes /yes	yes /yes	yes /yes
<b>Features</b>					
DCconnection:(MC3/MC4/H4)	opt/opt/yes	opt/opt/yes	opt/opt/yes	opt/opt/yes	opt/opt/yes
AC connection: Terminals	yes	yes	yes	yes	yes
LCD display	yes	yes	yes	yes	yes
Interfaces: Bluetooth /RS485/RS232	opt/yes/yes	opt/yes/yes	opt/yes/yes	opt/yes/yes	opt/yes/yes
Warranty: 5 years / 10 years	yes /opt	yes /opt	yes /opt	yes /opt	yes /opt
Certificates and approvals	CE/TUV EN50178,VDE 0126-1-1,EN6100-3-2, EN61000-6-1, EN61000-6-2, EN61000-6-3,EN61000-6-4,IEC-62109,DK5940,G83,RD1663				



10000UE / 12000UE / 18000UE / 20000UE



Model/ Specifications	Growatt 10000UE	Growatt 12000UE	Growatt 18000UE	Growatt 20000UE
<b>Input data</b>				
Max. DC power	10200W	12250W	18400W	20400W
Max. DC voltage	1000V	1000V	1000V	1000V
PV voltage range MPPT	400V-800V	400V-800V	400V-800V	400V-800V
Max. input current(input A/input B)	15A/15A	17A/17A	22A/22A	25A/25A
Number of MPP trackers	2	2	2	2
Max. number of parallel strings	2/2	2/2	3/3	3/3
DC Connections	MC4(optional MC3)	MC4(optional MC3)	MC4(optional MC3)	MC4(optional MC3)
<b>Output (AC)</b>				
Nominal output power	10KW	12KW	18KW	20KW
Max. AC power	10KVA	12KVA	18KVA	20KVA
Max. output current(over 110%)	14.4A	17.5A	26A	29A
AC voltage range	3/N/PE 230V/400V	3/N/PE 230V/400V	3/N/PE 230V/400V	3/N/PE 230V/400V
AC grid frequency range	50 /60 Hz -6Hz / + 5 Hz	50/60 Hz -6Hz/+ 5 Hz	50 /60 Hz -6Hz/+ 5 Hz	50 /60 Hz -6Hz/+ 5 Hz
Phase shift (cos φ)	0.8leading- 0.8laging	0.8leading- 0.8laging	0.8leading- 0.8laging	0.8leading- 0.8laging
AC output THD	<3%(normal power output)	<3%(normal power output)	<3%(normal power output)	<3%(normal power output)
AC connection	Three phase	Three phase	Three phase	Three phase
Consumption(night)	<1W	<1W	<1W	<1W
Electronics string fuse	20A	25A	30A	40A
Ground failure detection	yes	yes	yes	yes
Efficiency				
Max efficiency	98%	98%	98%	98%
Euro-eta	97.5%	97.5%	97.5%	97.5%
<b>General Data</b>				
Weight	41KG	41KG	60KG	60KG
Isolation	Transformerless	Transformerless	Transformerless	Transformerless
Ambient temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Cooling concept	Fans	Fans	Fans	Fans
Installation: Indoors /Outdoors (IP65 electronics )	yes/yes	yes/yes	yes/yes	yes/yes
Installation :Bluetooth/RS485/RS232	opt / yes / yes	opt / yes / yes	opt / yes / yes	opt / yes / yes
LCD display	Yes(Alphanumeric 4 lines)	Yes(Alphanumeric 4 lines)	Yes(Alphanumeric 4 lines)	Yes(Alphanumeric 4 lines)
Warranty: 5 years / 10years	yes /opt	yes /opt	yes /opt	yes /opt
Certificates and approvals	EN61000 - 6 - 2 , EN61000 - 6 - 3 , VDE0126 - 1 - 1 , DK5940 , CQC , RD1663 , G59 , SAA			



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2500MTL / 3000MTL / 4200MTL / 5000MTL



Model/ Specifications	Growatt 2500 MTL	Growatt 3000 MTL	Growatt 3600 MTL	Growatt 4200 MTL	Growatt 5000 MTL
<b>Input data</b>					
Max. DC power	1800W	2300W	3200W	4600W	5000W
Max. DC voltage	450V	500V	500V	580V	580V
PV voltage range MPPT	120V-450V	120V-450V	120V-450V	120V-500V	120V-500V
Full load Mpp-Voltage range	175V-430V	195V-450V	250V-450V	250V-500V	250V-500V
Max. number of parallel strings	1	2	2	3	3
Number of MPP trackers	1	1	1	1	1
MPPT input current	0~10A	0~12A	0~15A	0~20A	0~20A
Max. DC input Isc current	10A	12A	15A	20A	20A
<b>Output (AC)</b>					
Nominal AC output	1600W	2000W	2850W	4200W	4600W
Max. AC power	1650W	2000W	3000W	4400W	4600W
Max. output current	8A	11A	13A	21A	22.3A
AC voltage range	200Vac-250Vac	200Vac-250Vac	200Vac-250Vac	200Vac-250Vac	200Vac-250Vac
AC grid frequency range	40.1HZ-50.9Hz	40.1HZ-50.9Hz	40.1HZ-50.9Hz	40.1HZ-50.9Hz	40.1HZ-50.9Hz
Phase shift (cosφ)	1	1	1	1	1
THDI	<3%	<3%	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase	Single phase	Single phase
<b>Efficiency</b>					
Max. efficiency	97%	97%	97%	97.8%	97.8%
Euro - eat	96%	96%	96.5%	97.4%	97.4%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%	99.5%
<b>Protection devices</b>					
DC reverse polarity protection	yes	yes	yes	yes	yes
AC short - circuit protection	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes
Integrated all - pole sensitiveleakage current monitoring unit	yes	yes	yes	yes	yes
<b>General Data</b>					
Dimensions (W / H / D) in mm	362/329/132	362/329/132	362/329/132	406/406/192	406/406/192
Weight	11.5KG	11.7KG	12.2KG	21KG	21KG
Operating temperaturerange	-25°C ... +60°C	-25°C...+60 °C	-25°C ... +60°C	-25°C ... +60°C	-25°C ... +60°C
Continuous full output powertemperature range	-25°C... +50 °C	-25°C...+50 °C	-25°C ... +50°C	-25°C ... +50°C	-25°C ... +50°C
Noise emission (typical)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)
Altitude	Up to 2000m without power derating				
Consumption: operating(standby) / night	<5W / < 0.5 W	<5W / < 0.5 W	<5 W / < 0.5 W	<5 W / < 0.5 W	<5 W / < 0.5 W
Topology	transformerless	transformerless	transformerless	transformerless	transformerless
Cooling concept	No fan	No fan	No fan	No fan	No fan
Installation: Indoors / Outdoors (IP65 electronics )	yes /yes	yes /yes	yes /yes	yes /yes	yes /yes
<b>Features</b>					
DCconnection:(MC3/MC4/H4)	opt/opt/yes	opt/opt/yes	opt/opt/yes	opt/opt/yes	opt/opt/yes
AC connection: Terminals	yes	yes	yes	yes	yes
LCD display	yes	yes	yes	yes	yes
Interfaces: Bluetooth /RS485/RS232	opt/yes/yes	opt/yes/yes	opt/yes/yes	opt/yes/yes	opt/yes/yes
Warranty: 5 years / 10 years	yes /opt	yes /opt	yes /opt	yes /opt	yes /opt
Certificates and approvals	CE/TUV EN50178,VDE 0126-1-1,EN61000-3-2, EN61000-6-1, EN61000-6-2, EN61000-6-3,EN61000-6-4,IEC-62109,DK5940,G83,RD1663				