

Model	Growatt 1500	Growatt 2000	Growatt 3000	Growatt 4400	Growatt 5000
Specifications					
Input data					
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 voltage	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. input current	10A	12A	15A	20A	20A
Output (AC)					
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
Efficiency					
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%
Protection devices					
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 sensitive leakage current monitoring unit	yes	yes	yes	yes	yes
General Data					
Dimensions (W / D / H) 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 temperature range	-25°C ... +60°C	-25°C...+60 °C	-25°C ... +60°C	-25°C ... +60°C	-25°C ... +60°C
Continuous full output power temperature 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
Features					
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				