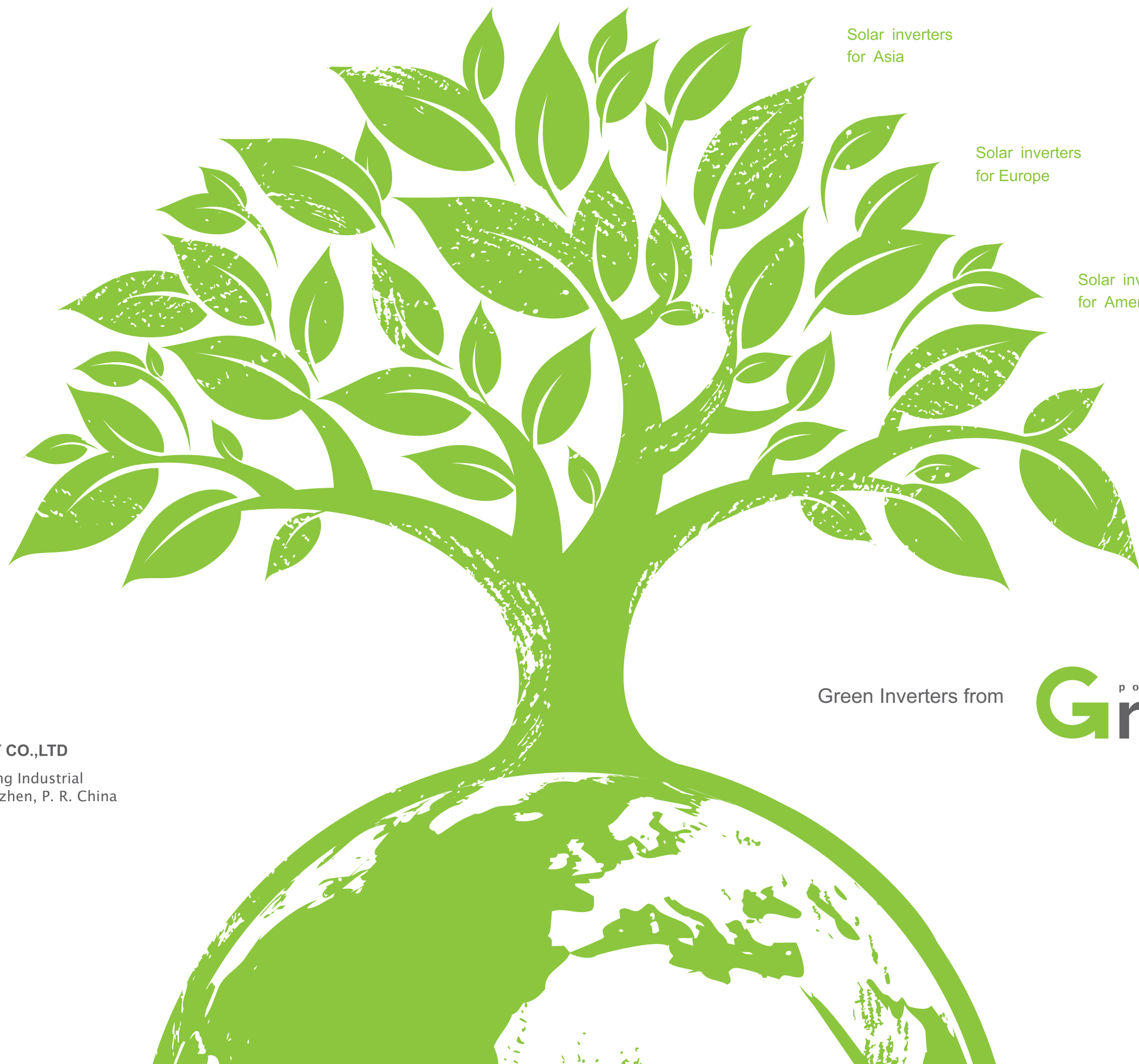




Solar inverters
for Asia

Solar inverters
for Europe

Solar inverters
for America

Solar inverters
for the earth

GROWATT NEW ENERGY CO.,LTD

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Green Inverters from

Growatt powering tomorrow

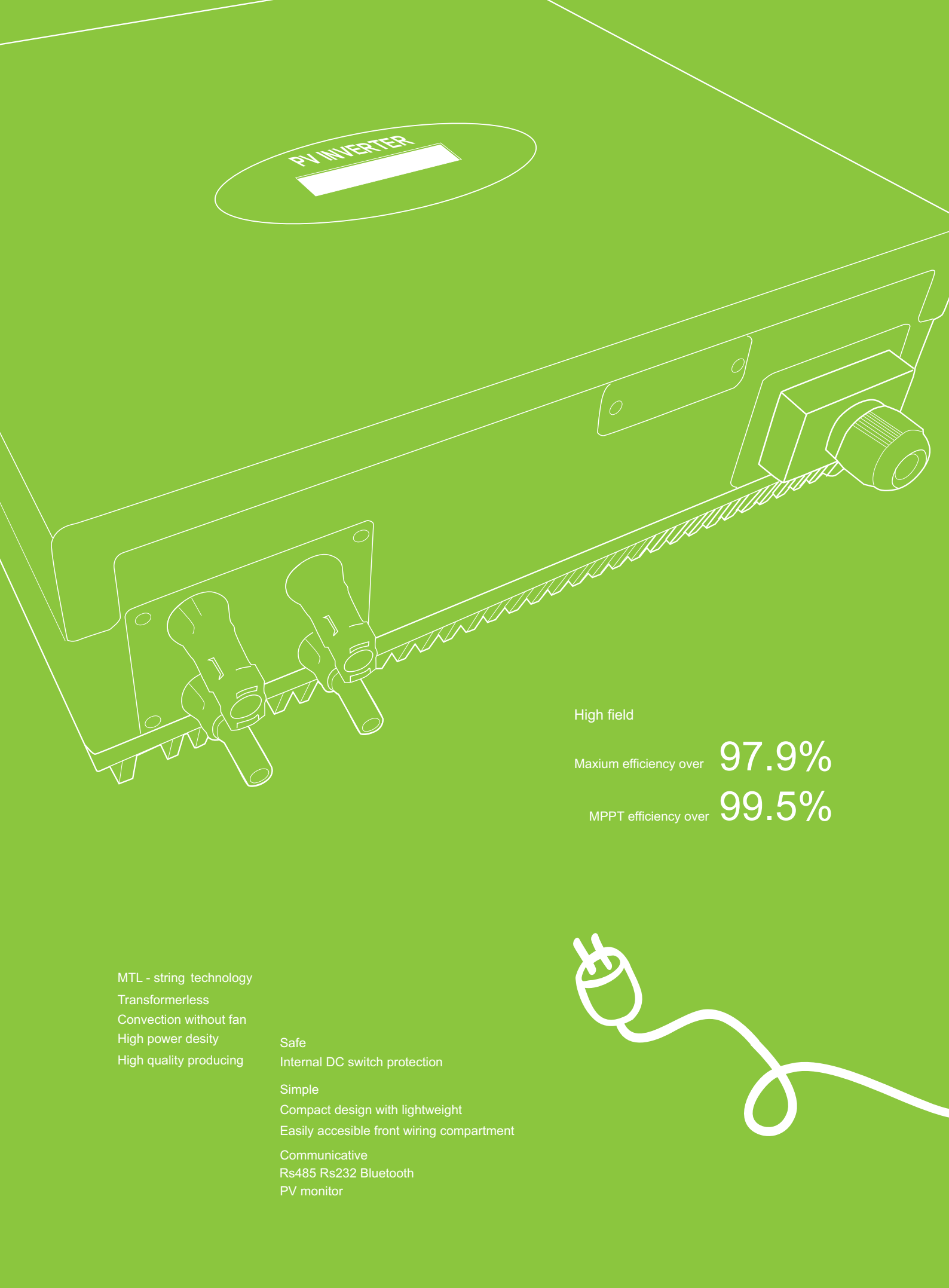
GROWATT New Energy Co., Ltd is a vibrant solar company with the goal of delivering high-quality, competitively priced solar devices to make the green energy more affordable and accessible around the world. GROWATT develops, produces and sells leading international solar inverters for photovoltaic application.

As the most important component of photovoltaic system, inverter converts the direct current generated in photovoltaic cells into alternating current suitable for the grid, intelligently manage the PV system to monitor the solar array and grid. According to the key parameter of inverters, GROWATT has the converting efficiency up to 97.9%.

GROWATT is always driven by the technology and innovation, easily keep pace with the trends of photovoltaic industry. We already have a series of first class inverters which meet the European industry and safety standards.

We invite trade company and system integrator to cooperate with us serving the global market. We also welcome the cooperation of ODM. In such a great potential market based on our sincere cooperation and the unique technology, our efforts will always lead to a prosperity future.

Based on our reliable technology and generally warranty of 5-10 years, we also provide advanced technical support and post - sales service. This is the one in your solar dream.



High field

Maxium efficiency over **97.9%**

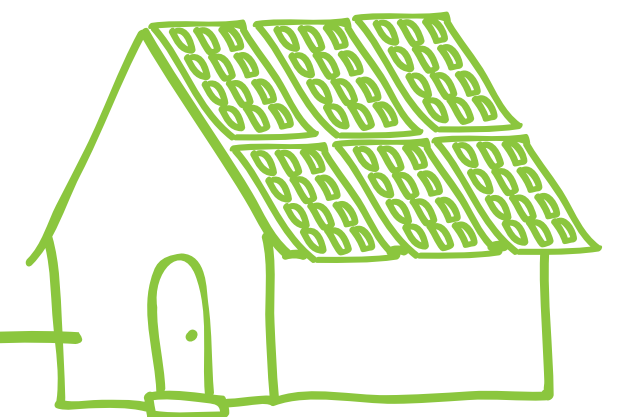
MPPT efficiency over **99.5%**

MTL - string technology
Transformerless
Convection without fan
High power desity
High quality producing

Safe
Internal DC switch protection

Simple
Compact design with lightweight
Easily accesible front wiring compartment

Communicative
Rs485 Rs232 Bluetooth
PV monitor



Growatt 1500TL / 2000TL / 3000TL / 4400TL / 5000TL

Leading - edge Technology

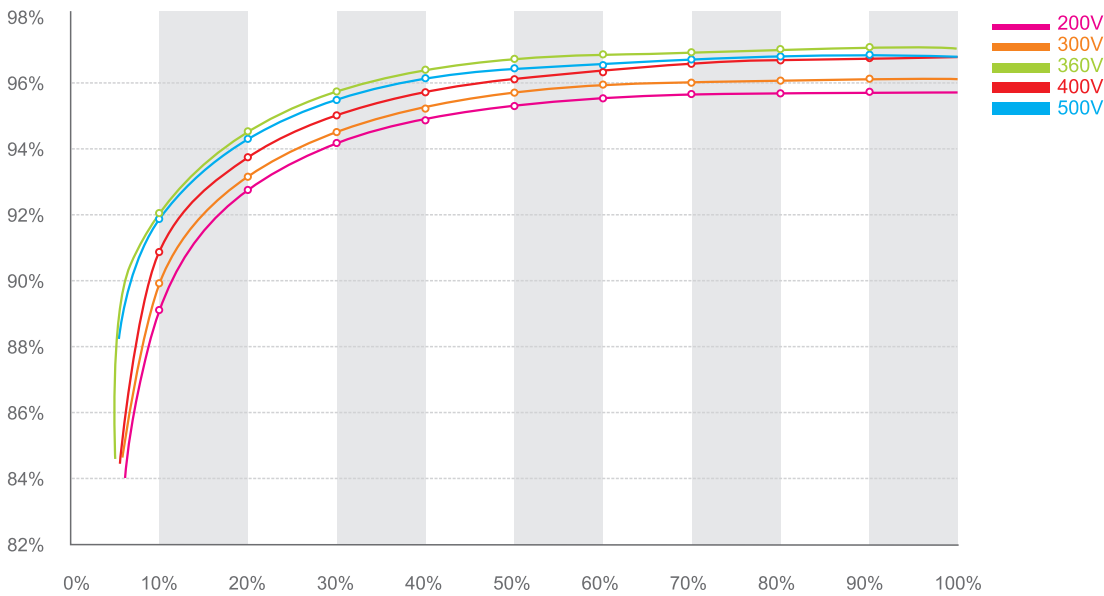
- ▶ Maximum efficiency of 97.8% and wide input voltage range
- ▶ Internal DC STWTICH
- ▶ Transformerless H6 Topology
- ▶ Compact design
- ▶ MTL- String
- ▶ Bluetooth technology
- ▶ Sound control
- ▶ Easy installation
- ▶ Comprehensive Growatt warranty program

Europe ENS

- ▶ Simple national setting of line supply monitoring(ENS)
- ▶ Easy country configuration
- ▶ Multi - language display
- ▶ Currently available for Germany, Austria, France, Switzerland, UK, Italy and Spain



3k efficiency



Datasheet

	Growatt 1500	Growatt 2000	Growatt 3000	Growatt 4400	Growatt 5000
Input data					
Max. DC power	1800W	2300W	3150W	4600W	5200W
Max. DC voltage	450V	500V	500V	580V	580V
PV voltage range MPPT	120V - 400V	120V - 450V	120V - 450V	120V - 500V	120V - 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	15A	15A	20A	27A	27A
Output (AC)					
Nominal AC ouput	1650W	2000W	2850W	4200W	4600W
Max. AC power	1650W	2200W	3000W	4400W	5000W
Max. output current	8A	11A	15A	21A	23A
Nominal AC voltage range	220V - 240V / 180V - 280V	220V - 240V / 180V - 280V	220V - 240V / 180V - 280V	220V - 240V / 180V - 280V	220V - 240V / 180V - 280V
AC grid frequency range	50Hz, 60Hz/±5Hz	50Hz, 60Hz/±5Hz	50Hz, 60Hz/±5Hz	50Hz, 60Hz/±5Hz	50Hz, 60Hz/±5Hz
Phase shift (cos φ)	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 - eta	96%	96%	96%	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)
Consumption: operating (standby)/ night	< 5W / < 0.5 W	< 5W / < 0.5 W	< 5W / < 0.5 W	< 5W / < 0.5 W	< 5W / < 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					
DC connection: (MC3/MC4, H4)	opt / yes	opt / yes	opt / yes	opt / yes	opt / yes
AC connection: Terminals	yes	yes	yes	yes	yes
LCD display	yes	yes	yes	yes	yes
Interfaces: Bluetooth/RS485/RS232	opt / opt / yes	opt / opt / yes	opt / opt / yes	opt / opt / yes	opt / opt / 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

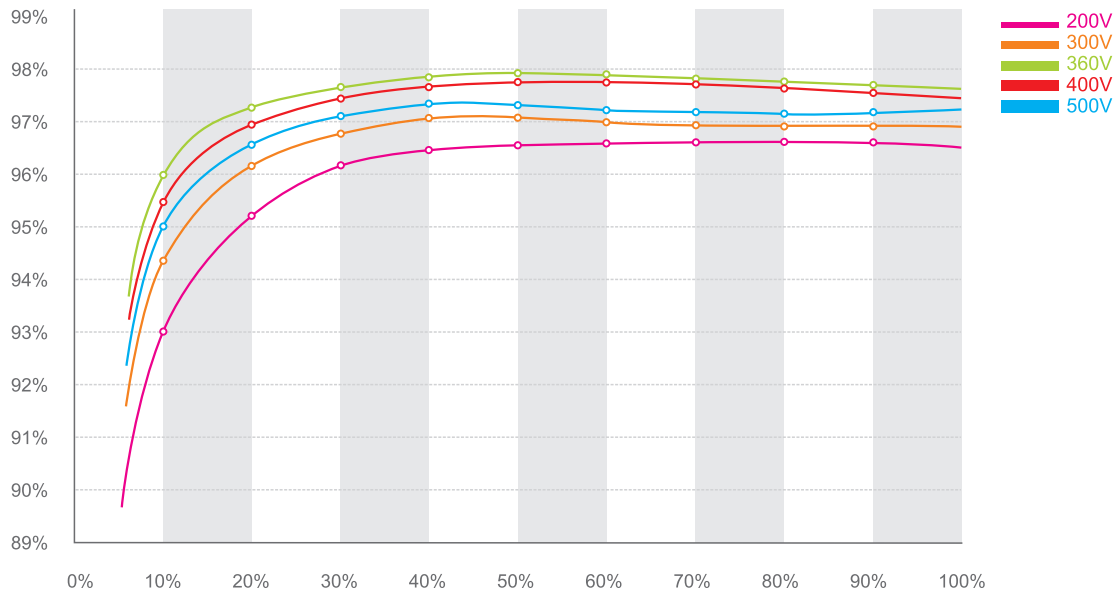
Sungold 1500TL / 2000TL / 3000TL / 4400TL / 5000TL

Leading - edge Technology

- ▶ Maximum efficiency of 97.8% and wide input voltage range
- ▶ Internal DC STWTICH
- ▶ Transformerless H6 Topology
- ▶ Compact design
- ▶ MTL - String
- ▶ Bluetooth Technology
- ▶ Sound control
- ▶ Easy installation
- ▶ Comprehensive Growatt warranty programy



5k efficiency



Datasheet

	Sungold 1500	Sungold 2000	Sungold 3000	Sungold 4400	Sungold 5000
Input data					
Max. DC power	1800W	2300W	3150W	4600W	5200W
Max. DC voltage	450V	500V	500V	580V	580V
PV voltage range MPPT	120V - 400V	120V - 450V	120V - 450V	120V - 500V	120V - 500V
Full load voltage range	230V - 430V	275V - 450V	250V - 450V	280V - 500V	280V - 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	15A	15A	20A	27A	27A
Output (AC)					
Nominal AC ouput	1650W	2000W	2850W	4200W	4600W
Max. AC power	1650W	2200W	3000W	4400W	5000W
Max. output current	8A	11A	15A	21A	23A
AC voltage range	207Vac - 263Vac	207Vac - 263Vac	207Vac - 263Vac	207Vac - 263Vac	207Vac - 263Vac
AC grid frequency range	46Hz - 54Hz	46Hz - 54Hz	46Hz - 54Hz	46Hz - 54Hz	46Hz - 54Hz
Phase shift (cos ϕ)	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	96.5%	96.5%	97%	97.8%	97.8%
Euro - eta	95%	95.5%	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 ... +60 °C	-25 °C ... +60 °C	-25 °C ... +45 °C	-25 °C ... +55 °C	-25 °C ... +55 °C
Noise emission (typical)	≤25 dB (A)	≤25 dB (A)	≤25 dB (A)	≤25 dB (A)	≤25 dB (A)
Consumption: operating (standby)/ night	< 5W / < 0.5 W	< 5W / < 0.5 W	< 5W / < 0.5 W	< 5W / < 0.5 W	< 5W / < 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					
DC connection: (MC3/MC4, H4)	opt / yes	opt / yes	opt / yes	opt / yes	opt / yes
AC connection: Terminals	yes	yes	yes	yes	yes
LCD display	yes	yes	yes	yes	yes
Interfaces: Bluetooth/RS485/RS232	opt / opt / yes	opt / opt / yes	opt / opt / yes	opt / opt / yes	opt / opt / yes
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt

Certificates and approvals

AS4777, SNZ AS NZS 3100

Growatt 3600MTL / 4200MTL/ 5000MTL

Leading - edge Technology

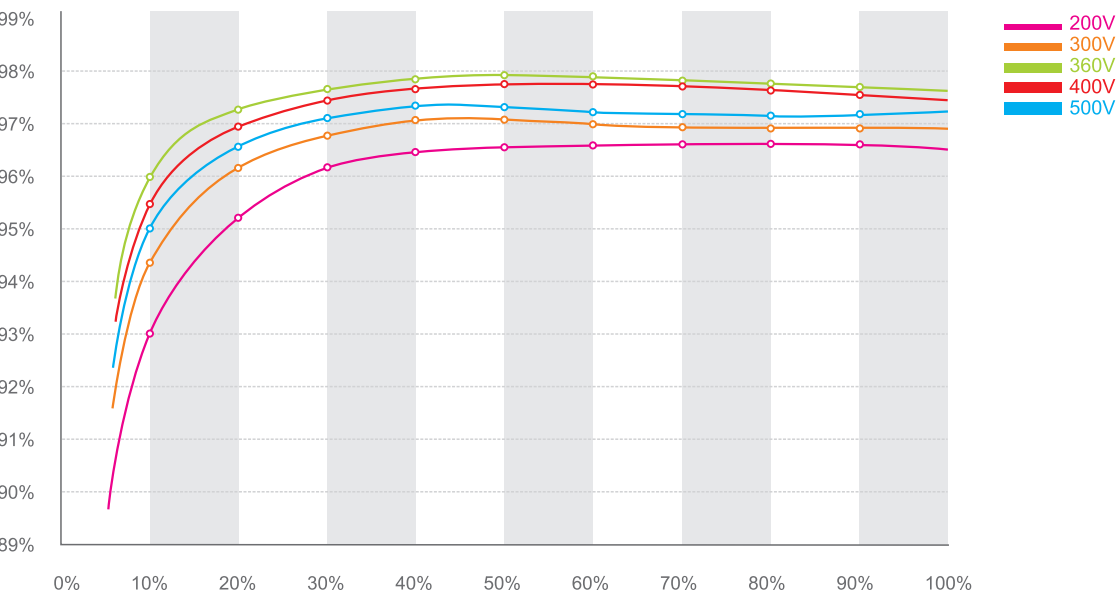
- ▶ Maximum efficiency of 97.9 % and wide input voltage range
- ▶ Internal DC Switch
- ▶ Transformerless H6 Topology
- ▶ Compact design
- ▶ Muti MPP control
- ▶ MTL - String
- ▶ Bluetooth technology
- ▶ Easy installation
- ▶ Sound control

Europe / Austria ENS

- ▶ Simple national setting of line supply monitoring(ENS)
- ▶ Easy country configuration
- ▶ Multi - language display
- ▶ Currently available for Germany,France,UK,Austria, Switzerland,Italy and Spain



5k efficiency



Datasheet

	Growatt 3600MTL	Growatt 4200MTL	Growatt 5000MTL
Input data			
Max. DC power	3800W	4400W	5200W
Max. DC power each MPPT tracker	2000W	2500W	3000W
Max. DC voltage	600V	600V	600V
PV voltage range MPPT	120V - 550V	120V - 550V	120V - 550V
Max. number of parallel strings	2/2	2/2	2/2
Number of MPP trackers	2(can parrallel)	2(can parrallel)	2(can parrallel)
Max. input current of the MPP tracker	10A/10A	15A/15A	15A/15A
Output (AC)			
Nominal AC ouput	3600W	4200W	4600W/5000W
Nominal output current	15.6A	18A	22A
Max. output current	18A	21A	25A
Nominal AC voltage range	220V/230V/240V 180V - 280V	220V/230V/240V 180V - 280V	220V/230V/240V 180V - 280V
AC grid frequency range	50 Hz, 60 Hz /± 5 Hz	50 Hz, 60 Hz /± 5 Hz	50 Hz, 60 Hz /± 5 Hz
Phase shift (cos φ)	1	1	1
THDI	< 3%	< 3%	< 3%
AC connection	Single phase	Single phase	Single phase
Efficiency			
Max. efficiency	97.6%	97.9%	97.9%
Euro - eta	97%	97.4%	97.4%
MPPT efficiency	99.5%	99.5%	99.5%
Protection devices			
DC reverse polarity protection	yes	yes	yes
AC short - circuit protection	yes	yes	yes
Ground fault monitoring	yes	yes	yes
Grid monitoring	yes	yes	yes
Integrated all - pole sensitive leakage current monitoring unit	yes	yes	yes
General data			
Dimensions (W / D / H) in mm	360/510/162.5	360/510/162.5	360/510/162.5
Weight	23KG	23KG	23KG
Operating temperature range	-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
Noise emission (typical)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)
Consumption: operating (standby)/ night	< 5W / < 0.5 W	< 5W / < 0.5 W	< 5W / < 0.5 W
Topology	transformerless	transformerless	transformerless
Cooling concept	No fan	No fan	No fan
Installation: Indoors / Outdoors (IP65 electronics)	yes /opt	yes / opt	yes / yes
Features			
DC connection: MC3/MC4	opt / yes	opt / yes	opt / yes
AC connection: Terminals	yes	yes	yes
LCD display	yes	yes	yes
Interfaces: Bluetooth / RS485 / RS232	opt / opt / yes	opt / opt / yes	opt / opt / yes
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt
Certificates and approvals			

VDE 0126-1-1,IEC 62109,RD 1663,G83
EN 61000-6-1,EN61000-6-2 ,EN61000-6-3,EN61000-6-4
As4777, SNZ AS NZS 3100

Growatt 3600MTL-US/4200MTL-US/5000MTL-US

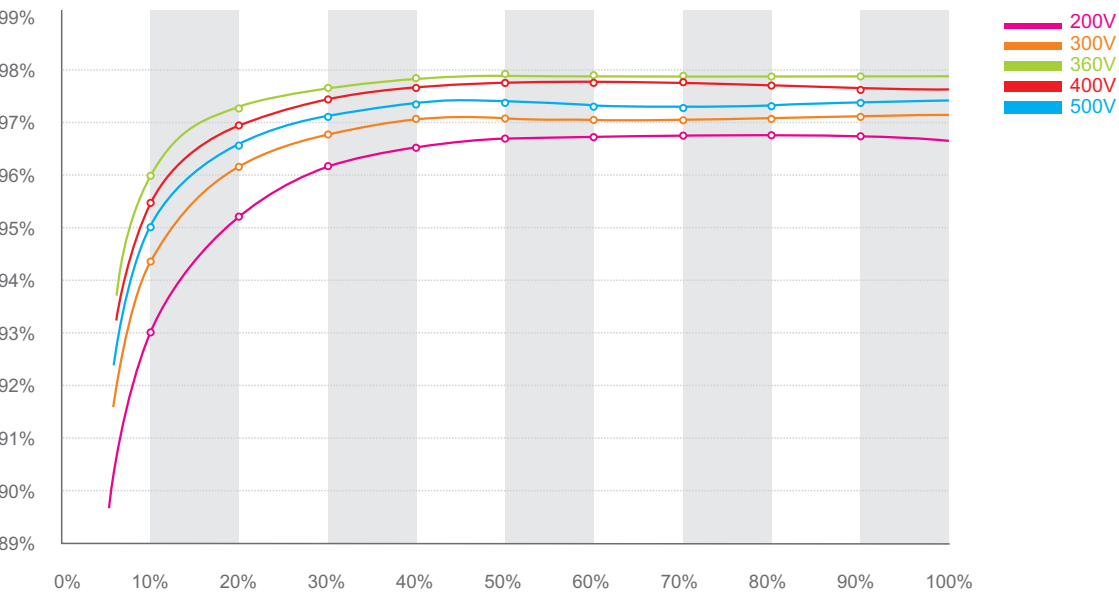
Leading - edge Technology

- ▶ Maximum efficiency of 97.9 % and wide input voltage range
- ▶ Internal DC Switch
- ▶ Transformerless H6 Topology
- ▶ Compact design
- ▶ Muti MPP control
- ▶ MTL - String
- ▶ Bluetooth technology
- ▶ Easy installation
- ▶ Sound control



NEW

5k efficiency



Datasheet

	Growatt3600MTL-US	Growatt4200MTL-US	Growatt5000MTL-US
Input data			
Max. DC power	3800W	4400W	5200W
Max. DC voltage	600V	600V	600V
PV voltage range MPPT	120V - 550V	120V - 550V	120V - 550V
Max. number of parallel strings	2	2	2
Number of MPP trackers	2	2	2
Max DC power on each MPP tracker	2000W	2500W	3000W
Max. input current of each MPP tracker	10A / 10A	15A / 15A	15A / 15A
Input channels configuration	Two independent MPPT channels with shared negative poles or Two channels in paralle		
Output data			
Nominal AC ouput power	3600W	4200W	5000W
Nominal AC voltage	208Vac / 240Vac	208Vac / 240Vac	208Vac / 240Vac
AC voltage range	183-229V/ 211-264V	183-229V/ 211-264V	183-229V/ 211-264V
Nominal AC grid frequency	60Hz	60Hz	60Hz
AC grid frequency range	59.3--60.5Hz	59.3--60.5Hz	59.3--60.5Hz
Nominal output current	17.4A / 15A	20.2A / 17.5A	24.1A / 21A
Max. output current	18A / 17.1A	21A / 20A	25A / 23.7A
Phase shift (cos ϕ) at nominal	1	1	1
THDI at nominal	< 3%	< 3%	< 3%
Phase conductors/connection phase	1/2	1/2	1/2
Efficiency			
Max. efficiency	97.6%	97.9%	97.9%
CEC.efficiency	97.1%	97.4%	97.4%
MPPT efficiency	99.5%	99.5%	99.5%
Protection devices			
DC reverse polarity protection	yes	yes	yes
PV Ground fault protection	yes	yes	yes
Input backfeed current	Negligible	Negligible	Negligible
Insulation Resistance low protection	yes	yes	yes
AC short-circuit protection	yes	yes	yes
Grid monitoring	yes	yes	yes
Anti islanding protection	yes	yes	yes
General data			
Dimensions (W / D / H) in mm	360/510/163	360/510/163	360/510/163
Weight	24KG	24KG	24KG
Operating temperature range	-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
Noise emission (typical)	≤25 dB (A)	≤25 dB (A)	≤25 dB (A)
Consumption: operating (standby)/ night	< 5W / < 0.5 W	< 5W / < 0.5 W	< 5W / < 0.5 W
Topology	transformerless	transformerless	transformerless
Cooling concept	Natural cool	Natural cool	Natural cool
Installation: Indoors /Outdoors (IP65 electronics/NEMA 4R)	yes / yes	yes / yes	yes / yes
Features			
DC connection:MC3/MC4	opt / yes	opt / yes	opt / yes
AC connection: Terminals	yes	yes	yes
LCD display	yes	yes	yes
Interfaces: Bluetooth / RS485 / RS232	opt / opt / yes	opt / opt / yes	opt / opt / yes
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt
Certificates and approvals			

UI1741, UL1998, IEEE1547, CSA C22.2 No.107.1,FCC Part15(Class A&B)

Growatt 10000UE / 12000UE / 17000UE

Leading - edge Technology

- ▶ DC input voltage of up to 1000 V
- ▶ Maximum efficiency of 98 %
- ▶ Internal DC STWTICH
- ▶ Transformerless
- ▶ Compact design
- ▶ Muti MPP control
- ▶ MTL - String
- ▶ Bluetooth technology
- ▶ Sound control
- ▶ Easy installation
- ▶ Comprehensive Growatt warranty program

Europe ENS

- ▶ Simple national setting of line supply monitoring(ENS)
- ▶ Easy country configuration
- ▶ Multi - language display
- ▶ Currently available for Germany, Austria, France, Switzerland, UK, Italy and Spain



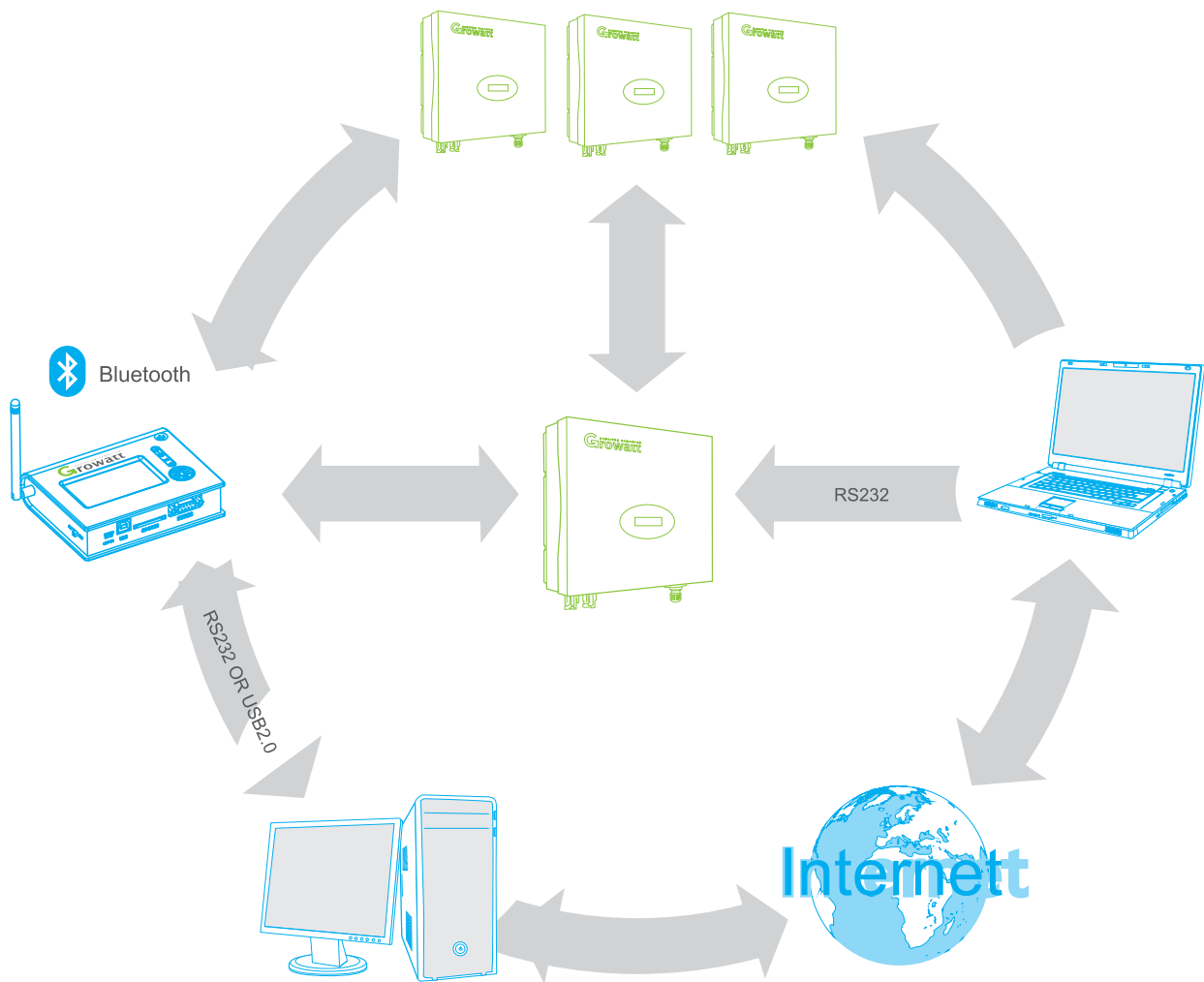
Datasheet

	Growatt 10000UE	Growatt 12000UE	Growatt 17000UE
Input data			
Max. DC power (at cos φ=1)	10200W	12250W	17410W
Max DC voltage	1000V	1000V	1000V
PV voltage range MPPT	400V - 800V	400V - 800V	400V - 800V
Max input current (input A / input B)	15A / 15A	17A / 17A	22A / 22A
Number of MPP trackers	2	2	2
MPPT input current(input A / input B)	2 / 2	2 / 2	2 / 2
DC Connections	MC4 (optional MC3)	MC4 (optional MC3)	MC4 (optional MC3)
Output (AC)			
Nominal ouput power	10KW	12KW	17KW
Max. AC power	10KVA	12KVA	17KVA
Max. output current (overload 110%)	16A	19A	27A
Nominal AC voltage range	3/N/PE 230V/400V	3/N/PE 230V/400V	3/N/PE 230V/400V
AC grid frequency range	50/60Hz - 6Hz / +5Hz	50/60Hz -6Hz / +5Hz	50/60Hz -6Hz / +5Hz
Phase shift (cos φ) adjustable	0.8 leading -0.8laging	0.8 leading -0.8laging	0.8 leading -0.8laging
Ac output THD	< 3% (normal power output)	< 3% (normal power output)	< 3% (normal power output)
AC connection	Three phase	Three phase	Three phase
Consumption (night)	<1W	<1W	<1W
Electronics string fuse	20A	25A	30A
Ground failure detection	Yes	Yes	Yes
Efficiency			
Max. efficiency	98%	98%	98%
Euro efficiency	97.5%	97.5%	97.5%
General data			
Weight	40KG	40KG	40KG
Isolation	Transformerless	Transformerless	Transformerless
Ambient operational range	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Cooling concept	Fans	Fans	Fans
Installation indoors / outdoors	Ip65	Ip65	Ip65
Communication	Rs232 / Blue tooth / R485	Rs232 / Blue tooth / R485	Rs232 / Blue tooth / R485
Display	YES (Alphanumeric 2 lines)	YES (Alphanumeric 2 lines)	YES (Alphanumeric 2 lines)
Warranty	5 years / 10 years(opt)	5 years / 10 years(opt)	5 years / 10 years(opt)
Certificates and approvals			
	TUV, UL, AS	TUV, UL, AS	TUV, UL, AS

GRO Monitor Datalogger

GRO Features

- ▶ Monitoring the inverters via bluetooth link. Recording the total yield, on line power, PV pannel voltage, PV pannel current.
- ▶ Active alarm management with RS232. An additional Buzzer function.
- ▶ 2GigBytes SD Card storage. Datalogger can work off line.
- ▶ Data records trasfered from SD Card to PC via USB2.0 cable.
- ▶ Charginging via USB2.0 cable or DC - DC adapter.
- ▶ Easy Contral provides an extremely flexible interface to facilitate PC-based inverterm monitoring.
- ▶ A front-mounted LCD display provides visual confirmation of all critical operating parameters.



Datasheet

Communication Specification	
Communication with inverters	Bluetooth (Class 1Spec.) or RS485
Communication with PC	RS232 or USB 2.0
Monitor number	6
HMI (Human Machine Interface)	
LCD Screen	128 x 64 Dot Graph LCD
Keypad	4bit Keypad (Prv. , Next, Enter, Esc)
Alarm	Buzzer
LED	Battery Managemet
Storage	2G SD Card
Power Supply	
Power supply	Adapter / USB cable / Lithium Battery
Battery type	500mAh Lithium Battery
Power consumption	< 2W
General Data	
Size	222 / 153 / 45
Weight	800g
Installer	Desktop Device
Working temperature range	0~ +55 °C
Environment protection level	Ip20



Choose Growatt

Choose golden service

7 x 24 global on line support

Consultation

Growatt provides the consultation: production, system design, installing and debugging.

Integrator service

Growatt cooperates with the system integrator to design the best solar system.

On site support

Growatt engineers will be on site with our partner to solve any urgent case.

Guarantee

Growatt provides 5 years free warranty and 10 years option warranty.

Training

Growatt provides the totally free training.

Service hotline:
+ 86 755 2747 1900
E-mail: service@ginverter.com

Business hotline
+ 86 755 3391 6245
E-mail: sales@ginverter.com



Share the sun
Share the green energy