

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

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twitter&facebook: Growatt New Energy

GR-CA-025-01

Growatt
powering tomorrow

Residential PV Inverter

*Green energy starting
from your house*



About Growatt



Fast growing new energy enterprise

► Leading brand, focus on string inverter



1-100kW
capacity



1,330,000+
shipped totally



12GW+
total shipment capacity



business covered
100 countries and regions



250k+
inverters running perfectly
for over five years

► Continuous investment in innovation



1200 employees
20% R&D engineers

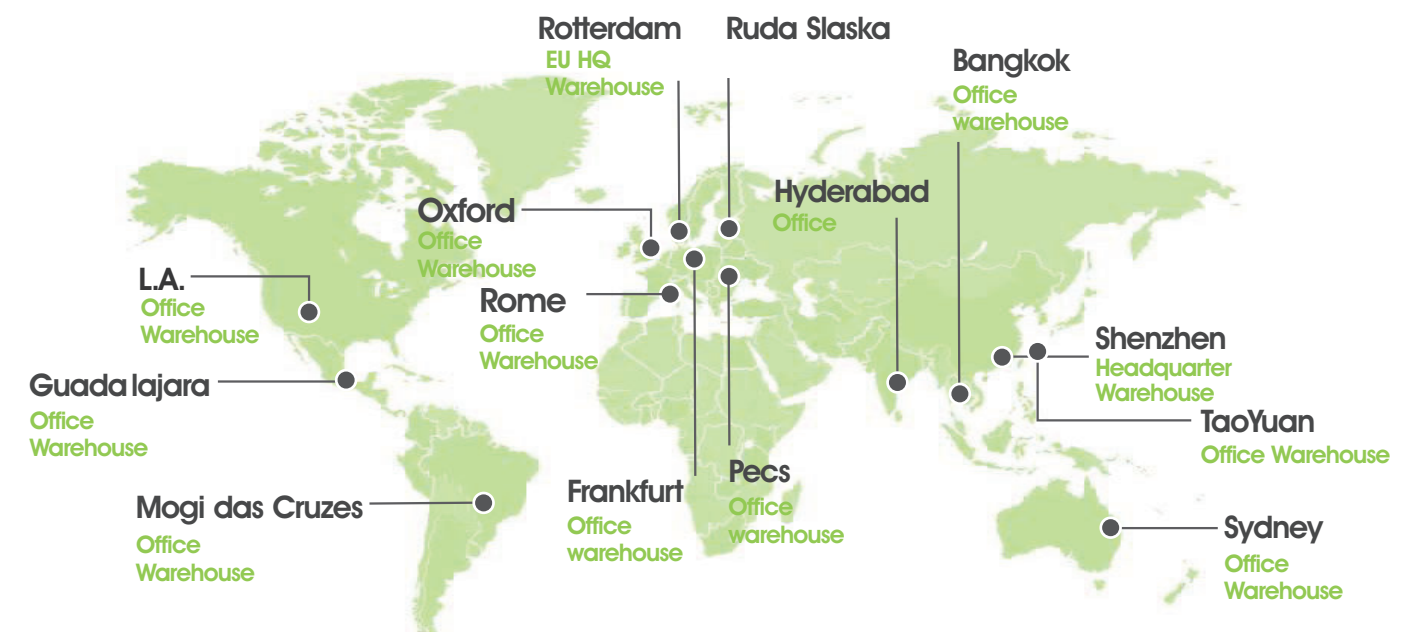


8% revenue
in R&D investment



70+ patents
and copyrights

► Office and service center globally



IHS MARKIT

TOP3

Global Single-Phase PV Inverter Supplier



PV INVERTER SUPPLIER
NO.1 CHINESE RESIDENTIAL

New Generation Residential Selection

Powerful and Elegant TL-XE/XH Series

TL-XH series are the most up-to-date smart on-grid inverter for single phase residential users and this is a complete revolution from the inside out. What's more, these series have such strong adaptability, it owns a battery interface which can be easily extend to a storage system in the future without extra device or retrofit cost.



●The difference between XH and XE series is XH series have a battery interface.

Excellent HMI Experience

Thanks to the advanced material technologies, we are able to use innovative aerial material to make the top cover of our inverter. With this material, we can make our inverter light and durable, what's more it also fire-retardant. One-time formed innovative material top-cover smooth and seamless, bring elegant looking, prefect touch feeling and better protection. Also, don't forget the OLED screen and touch button, these also bring prefect HMI experience.



Light and elegant



High Polymer Topcover



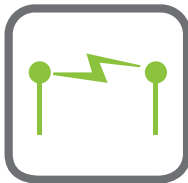
OLED Screen



Touch Button

Comprehensive Protection

A good inverter must be stable and safe. TL-XH series are definitely good inverter which meets all the above criteria. In environment tolerance aspect, TL-XH series can work at minimum -35°C which is also better than most market products. When it comes to lighting protection, it equipped with Type II DC surge protection. Furthermore, AFCI and RSD is optional, which can help you to give a better protection at DC side.



AFCI



Type II SPD



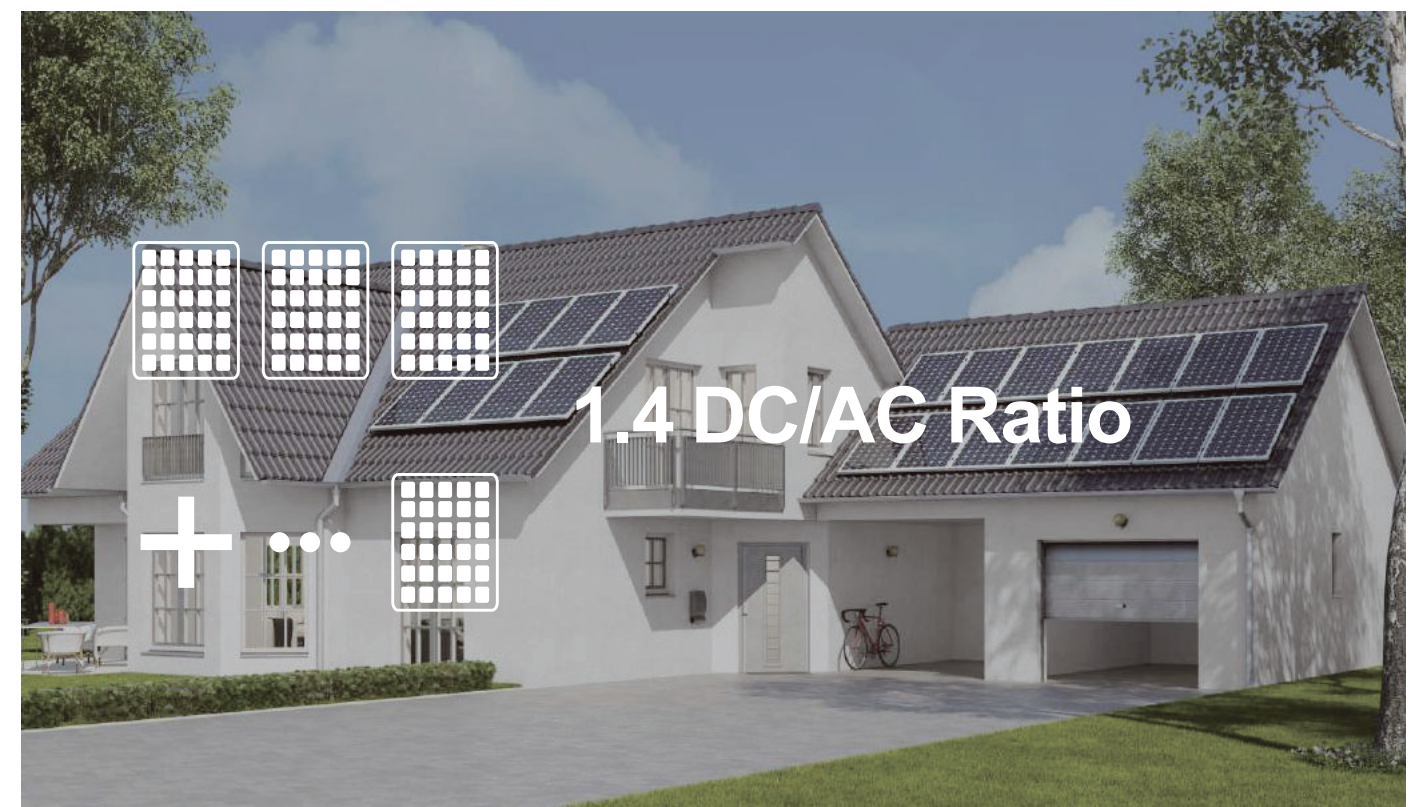
Optional RSD



-35°C tolerance

Higher Yields

Due to innovative topological, the efficiency of the TL-XH series are now up to 98.4% which is higher than most products of the same type on the market. In addition, TL-XH series own two MPPTs, 1.4 times DC/AC ratio and the string current of it up to 12.5A which make sure our inverter can compatible with double-glass modules and higher yields.



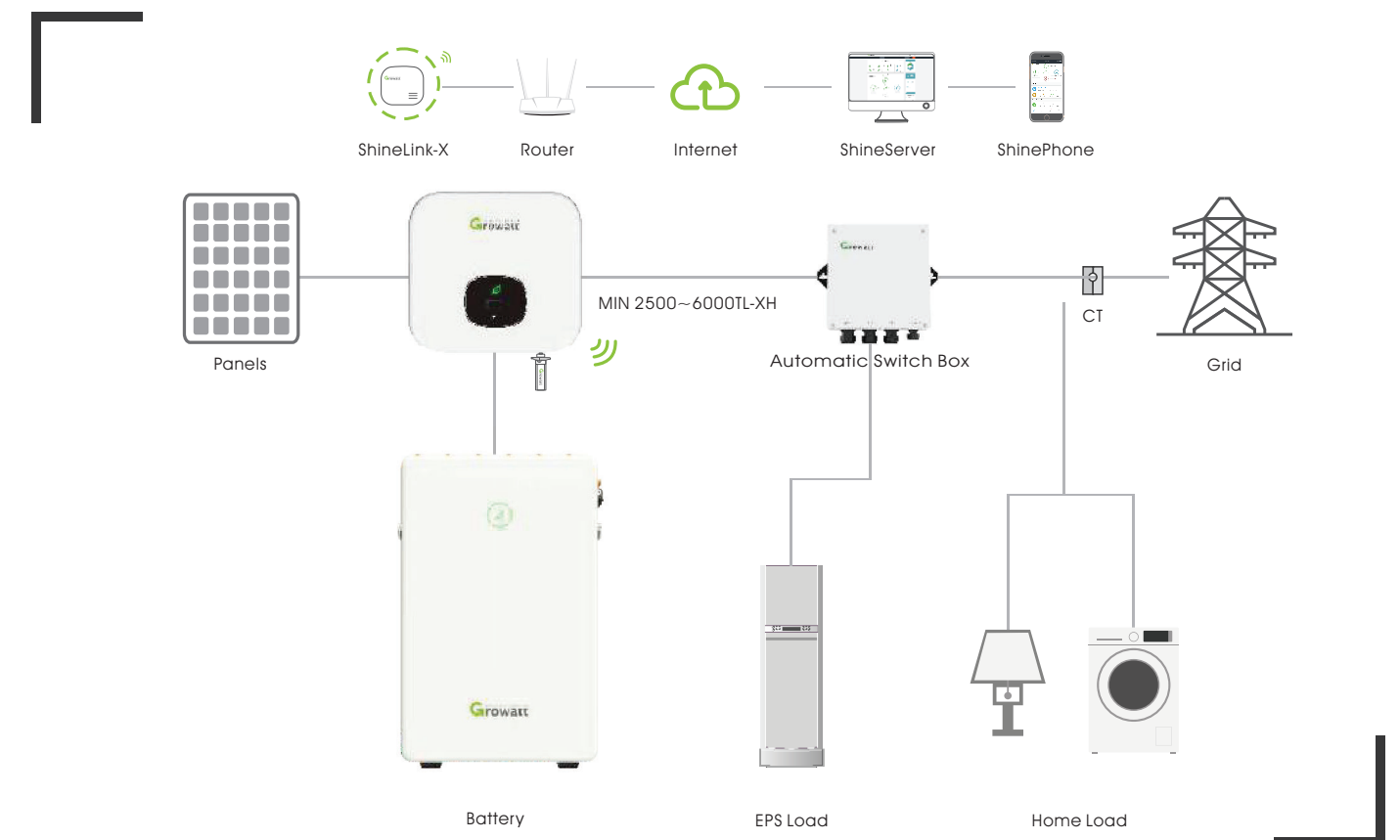
Strong Adaptability

TL-XH is not only an inverter, it has such strong adaptability. A battery interface which make it easily extend into a storage system in the future without extra device or retrofit cost.

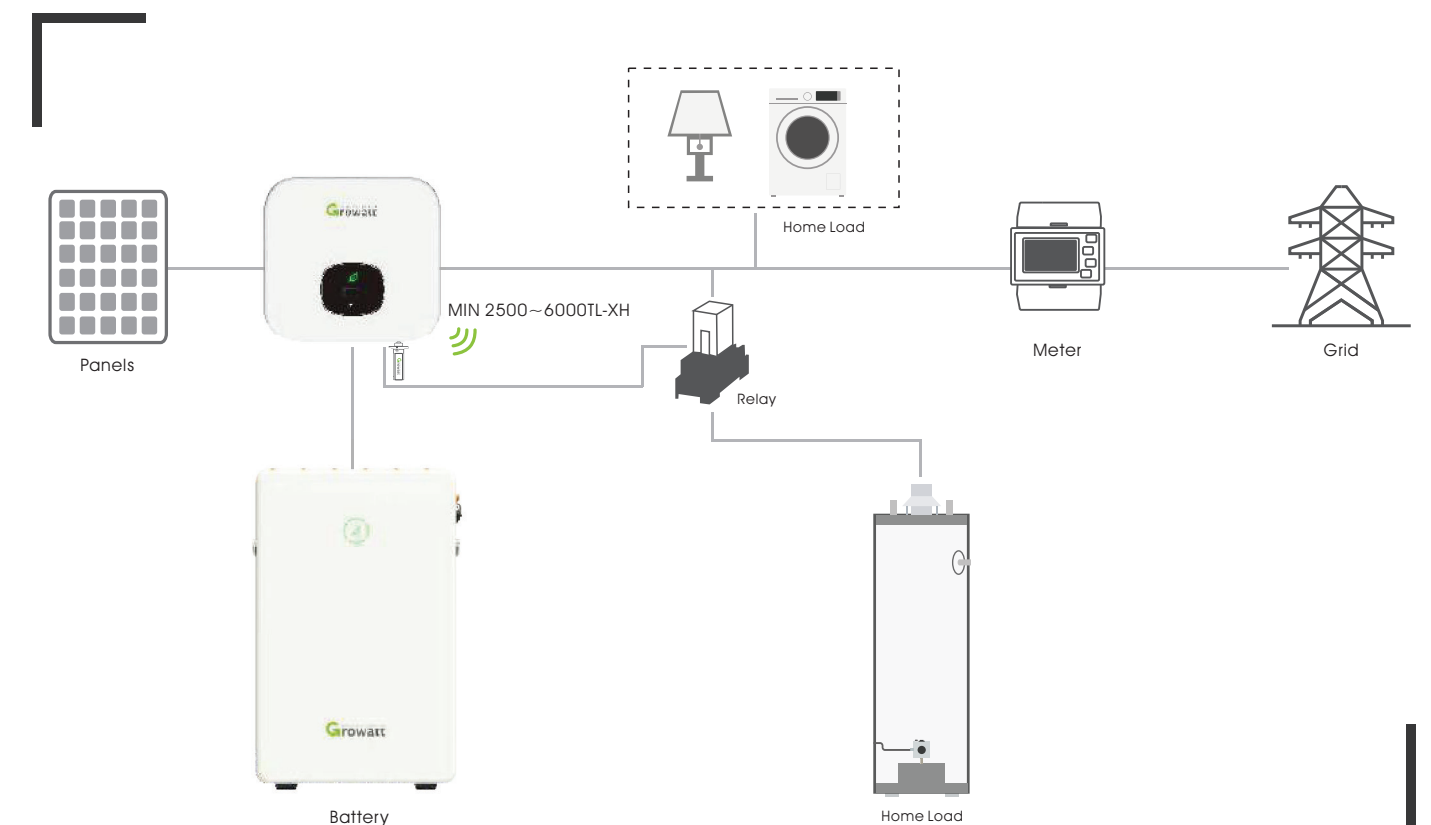
Also, the external extension interface of TL-XH can connect with IoT devices which realized remotely control of the home devices.



Extend the TL-XH system to an energy storage system



IoT System



Growatt 750~3000 -S



- Maximum efficiency of 97.6%
 - Optional DC switch
- Max. DC voltage up to 550V
 - Flexible Interfaces

Datasheet	750-S	1000-S	1500-S	2000-S	2500-S	3000-S
Input Data						
Max. recommended PV power (for module STC)	970W	1300W	1950W	2600W	3250W	3900W
Max. DC voltage	450V	450V	450V	450V	550V	550V
Start voltage	50V	80V	80V	80V	80V	80V
MPPT voltage range	50V-450V	70V-450V	70V-450V	70V-450V	70V-500V	70V-550V
Nominal voltage	120V	180V	250V	360V	360V	360V
Max. input current	10A	10A	10A	11A	12A	13A
Max. input current per string	10A	10A	10A	11A	12A	13A
Number of independent MPP trackers/strings per MPP tracker	1/1	1/1	1/1	1/1	1/ 1	1/ 1
Output (AC)						
Rated AC output power	750W	1000W	1600W	2000W	2500W	3000W
Max. AC power	750W	1000W	1650W	2000W	2500W	3000W
Max. output current	3.3A	4.7A	7.8A	9.5A	11.9A	14.3A
AC nominal voltage	220V/230V/240V	220V/230V/240V	220V/230V/240V	220V/230V/240V	220V/230V/240V	220V/230V/240V
AC grid frequency; range	50Hz,60Hz / ±5Hz	50Hz,60Hz / ±5Hz	50Hz,60Hz / ±5Hz	50Hz,60Hz / ±5Hz	50Hz,60Hz / ±5Hz	50Hz,60Hz / ±5Hz
Adjustable power factor	0.8leading...0.8lagging	0.8leading...0.8lagging	0.8leading...0.8lagging	0.8leading...0.8lagging	0.8leading...0.8lagging	0.8leading...0.8lagging
THDI	<3%	<3%	<3%	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
Efficiency						
Max. efficiency	97.2%	97.4%	97.4%	97.4%	97.6%	97.6%
Euro weighted efficiency	96%	96.5%	97%	97%	97.3%	97.3%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%
Protection Devices						
DC reverse polarity protection	yes	yes	yes	yes	yes	yes
DC switch	yes	yes	yes	yes	yes	yes
Output over current protection	yes	yes	yes	yes	yes	yes
Output AC overvoltage Protection - Varistor	yes	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes	yes
Integrated all-pole sensitive leakage current monitoring unit	yes	yes	yes	yes	yes	yes
General Data						
Dimensions (W / H / D) in mm	271/299/141	271/299/141	271/299/141	271/299/141	271/359/141	271/359/141
Weight	6.4KG	6.4KG	6.4KG	6.4KG	9.1KG	9.1KG
Operating temperature range	- 25°C ... +60°C	- 25°C ... +60°C	- 25°C ... +60°C	- 25°C ... +60°C	- 25°C ... +60°C	- 25°C ... +60°C
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)
Self-Consumption night	<0.5 W	<0.5 W	<0.5 W	<0.5 W	<0.5 W	<0.5 W
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Natural	Natural	Natural	Natural	Natural	Natural
Environmental Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65
Altitude	2000m without derating	2000m without derating	2000m without derating	2000m without derating	2000m without derating	2000m without derating
Relative humidity	100%	100%	100%	100%	100%	100%
Features						
DC connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
AC connection	Connector	Connector	Connector	Connector	Connector	Connector
Display	LCD	LCD	LCD	LCD	LCD	LCD
Interfaces: RS232/RF/Wi-Fi/LAN/GPRS	yes/opt/opt/opt/opt	yes/opt/opt/opt/opt	yes/opt/opt/opt/opt	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	yes/opt	yes/opt	yes/opt

CE, VDE 0126-1-1, IEC 62109, G98, AS4777, AS/NZS 3100, CEIO-21, VDE-AR-N4105, EN50438, CQC, UTE C 15-712, IEC 61683, IEC 60068, IEC 61727, IEC 62116, INMETRO

Growatt 2500~5500MTL-S



- Maximum efficiency 97.9%
 - Dual MPP trackers
- Max. DC voltage up to 550V
 - Flexible Interfaces

Datasheet	2500MTL-S	3000MTL-S	3600MTL-S	4200MTL-S	5000MTL-S	5500MTL-S
Input Data						
Max. recommended PV power (for module STC)	3250W	3900W	4680W	5460W	5980W	6500W
Max. DC voltage	500V	500V	550V	550V	550V	550V
Start voltage	100V	100V	100V	100V	100V	100V
MPPT voltage range	80V-500V	80V-500V	80V-550V	80V-550V	80V-550V	80V-550V
Nominal voltage	360V	360V	360V	360V	360V	360V
Max. input current of tracker A/ tracker B	10A/10A	10A/10A	10A/10A	15A/15A	15A/15A	15A/15A
Max. input current per string of tracker A/tracker B	10A/10A	10A/10A	10A/10A	15A/15A	15A/15A	15A/15A
Number of independent MPP trackers / strings per MPP tracker	2/1	2/1	2/1	2/1	2/1	2/1
Output (AC)						
Rated AC output power	2500W	3000W	3600W	4200W	4600W	5000W
Max. AC apparent power	2500VA	3000VA	3600VA	4200VA	4600VA	5000VA
Max. output current	11.3A	13.6A	16.3A	19A	20.9A	22.7A
AC nominal voltage; range	220V/230V /240	220V/230V /240	220V/230V /240	220V/230V /240	220V/230V /240	220V/230V /240
AC grid frequency; range	50Hz,60Hz / ±5Hz	50Hz,60Hz / ±5Hz	50Hz,60Hz / ±5Hz	50Hz,60Hz / ±5Hz	50Hz,60Hz / ±5Hz	50Hz,60Hz / ±5Hz
Displacement power factor, configurable	0.8leading... 0.95lagging	0.8leading... 0.95lagging	0.8leading... 0.95lagging	0.8leading... 0.95lagging	0.8leading... 0.95lagging	0.8leading... 0.95lagging
THDI	<3%	<3%	<3%	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
Efficiency						
Max.efficiency	97.6%	97.6%	97.9%	97.9%	97.9%	97.9%
Euro weighted efficiency	97%	97%	97. 4%	97. 4%	97. 4%	97. 4%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%
Protection Devices						
DC reverse polarity protection	yes	yes	yes	yes	yes	yes
DC switch rating for each MPPT	yes	yes	yes	yes	yes	yes
Output over current protection	yes	yes	yes	yes	yes	yes
Output over voltage protection-varistor	yes	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes	yes
Integrated all - pole sensitive leakage current monitoring unit	yes	yes	yes	yes	yes	yes
General Data						
Dimensions (W / H / D) in mm	355/419/138	355/419/138	355/419/138	355/419/138	355/419/158	355/419/158
Weight	14KG	14KG	14KG	14KG	14.5KG	14.5KG
Operating temperature range	- 25°C ... +60°C	- 25°C ... +60°C	- 25°C ... +60°C	- 25°C ... +60°C	- 25°C ... +60°C	- 25°C ... +60°C
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)
Altitude	2000m without derating	2000m without derating	2000m without derating	2000m without derating	2000m without derating	2000m without derating
Self-Consumption night	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Natural	Natural	Natural	Natural	Natural	Natural
Environmental Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65
Relative humidity	100%	100%	100%	100%	100%	100%
Features						
DC connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
AC connection	Connector	Connector	Connector	Connector	Connector	Connector
Display	LCD	LCD	LCD	LCD	LCD	LCD
Interfaces: RS232 / RJ45 / RS485/ RF / Wi-Fi / LAN / GPRS	yes / yes /opt / opt / opt / opt / opt	yes / yes /opt / opt / opt / opt / opt	yes / yes /opt / opt / opt / opt / opt	yes / yes /opt / opt / opt / opt / opt	yes / yes /opt / opt / opt / opt / opt	yes / yes /opt / opt / opt / opt / opt
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt

CE, IEC62109, G98/99, VDE0126-1-1, UTE C 15-712, AS4777, AS/NZS 3100, CEIO-21, VDE-AR-N4105, EN50438, CQC, IEC 61683, IEC 60068, IEC 61727, IEC 62116, INMETRO

MIN 2500~6000 TL-XE



- Maximum efficiency 98.4%
- Type II SPD on DC side
- Dual MPP trackers
- Supports export control

Datasheet	MIN 2500TL-XE	MIN 3000TL-XE	MIN 3600TL-XE	MIN 4200TL-XE	MIN 4600TL-XE	MIN 5000TL-XE	MIN 6000TL-XE
Input Data							
Max. recommended PV power (for module STC)	3500W	4200W	5040W	5880W	6440W	7000W	8100W
Max. DC voltage	500V	500V	550V	550V	550V	550V	550V
Start voltage	100V	100V	100V	100V	100V	100V	100V
MPPT voltage range/nominal voltage	80V-500V /360V	80V-500V /360V	80V-550V /360V	80V-550V /360V	80V-550V /360V	80V-550V /360V	80V-550V /360V
Max. input current	12.5A/12.5A	12.5A/12.5A	12.5A/12.5A	12.5A/12.5A	12.5A/12.5A	12.5A/12.5A	12.5A/12.5A
Max. short-circuit current	16A/16A	16A/16A	16A/16A	16A/16A	16A/16A	16A/16A	16A/16A
Number of independent MPP trackers / strings per MPP tracker	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Output (AC)							
Rated AC output power	2500W	3000W	3600W	4200W	4600W	5000W	6000W
Max. AC apparent power	2500VA	3000VA	3600VA	4200VA	4600VA	5000VA	6000VA
Max. output current	11.3A	13.6A	16A	19A	20.9A	22.7A	27.2A
AC nominal voltage	230V(160V-300V)	230V(160V-300V)	230V(160V-300V)	230V(160V-300V)	230V(160V-300V)	230V(160V-300V)	230V(160V-300V)
AC grid frequency	50Hz/60Hz ± 5Hz	50Hz/60Hz ± 5Hz	50Hz/60Hz ± 5Hz	50Hz/60Hz ± 5Hz	50Hz/60Hz ± 5Hz	50Hz/60Hz ± 5Hz	50Hz/60Hz ± 5Hz
Adjustable power factor	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging
THDI	<3%	<3%	<3%	<3%	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
Efficiency							
Max. efficiency	98.2%	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
Euro weighted efficiency	97.1%	97.1%	97.2%	97.5%	97.5%	97.5%	97.5%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Protection Devices							
DC reverse polarity protection	yes	yes	yes	yes	yes	yes	yes
DC switch	yes	yes	yes	yes	yes	yes	yes
DC surge protection	Type II	Type II	Type II	Type II	Type II	Type II	Type II
Output over current protection	yes	yes	yes	yes	yes	yes	yes
AC surge protection-varistor	yes	yes	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes	yes	yes
Integrated all - pole sensitive leakage current monitoring unit	yes	yes	yes	yes	yes	yes	yes
General Data							
Dimensions (W / H / D) in mm	375/350/160	375/350/160	375/350/160	375/350/160	375/350/160	375/350/160	375/350/160
Weight	10.8KG	10.8KG	10.8KG	10.8KG	10.8KG	10.8KG	10.8KG
Operating temperature range	- 25°C ... + 60°C	- 25°C ... + 60°C	- 25°C ... + 60°C	- 25°C ... + 60°C	- 25°C ... + 60°C	- 25°C ... + 60°C	- 25°C ... + 60°C
Noise emission (typical)	≤35 dB(A)	≤35 dB(A)	≤35 dB(A)	≤35 dB(A)	≤35 dB(A)	≤35 dB(A)	≤35 dB(A)
Altitude	4000m	4000m	4000m	4000m	4000m	4000m	4000m
Self-Consumption night	< 1W	< 1W	< 1W	< 1W	< 1W	< 1W	< 1W
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Nature Convection	Nature Convection	Nature Convection	Nature Convection	Nature Convection	Nature Convection	Nature Convection
Environmental Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Relative humidity	100%	100%	100%	100%	100%	100%	100%
Features							
DC connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
AC connection	Connector	Connector	Connector	Connector	Connector	Connector	Connector
Display	OLED+LED	OLED+LED	OLED+LED	OLED+LED	OLED+LED	OLED+LED	OLED+LED
Interfaces: RS485/USB/ Wi-Fi 4G/RF	yes / yes / opt / opt / opt	yes / yes / opt / opt / opt	yes / yes / opt / opt / opt	yes / yes / opt / opt / opt	yes / yes / opt / opt / opt	yes / yes / opt / opt / opt	yes / yes / opt / opt / opt
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt

CE, IEC62109, G98, G99, VFR2014, CEIO-21, VDE-AR-N4105, EN50549, IEC61727, IEC62116

MIN 2500~6000TL-XH



- Storage ready
- Max. Efficiency 98.4%
- Type II SPD on DC side
- Dual MPP trackers
- Rapid shutdown & AFCI optional
- Touch key and OLED display

Datasheet	MIN 2500TL-XH	MIN 3000TL-XH	MIN 3600TL-XH	MIN 4000TL-XH	MIN 4600TL-XH	MIN 5000TL-XH	MIN 6000TL-XH
Input Data (PV)							
Max. recommended PV power (for module STC)	3500W	4200W	5150W	5600W	6440W	7000W	8100W
Max. PV voltage	500V	500V	550V	550V	550V	550V	550V
Start voltage	100V	100V	100V	100V	100V	100V	100V
Nominal voltage	360V	360V	360V	360V	360V	360V	360V
MPPT voltage range	70V~500V	70V~500V	70V~550V	70V~550V	70V~550V	70V~550V	70V~550V
Number of independent MPP trackers / strings per MPP tracker	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Max. input current per MPP trackers	12.5A	12.5A	12.5A	12.5A	12.5A	12.5A	12.5A
Max. short-circuit current per MPP trackers	16A/16A	16A/16A	16A/16A	16A/16A	16A/16A	16A/16A	16A/16A
Input Data (DC)							
Max. Input voltage	480V	480V	480V	480V	480V	480V	480V
Nominal DC input voltage	350V	350V	350V	350V	350V	350V	350V
Max. Input current	10A	10A	10A	10A	10A	10A	10A
Output Data (AC Grid)							
AC nominal power	2500W	3000W	3600W	4000W	4600W	5000W	6000W
Max. AC apparent power	2500VA	3000VA	3600VA	4000VA	4600VA	5000VA	6000VA
Nominal AC voltage/range	230V/187V~276V	230V/187V~276V	230V/187V~276V	230V/187V~276V	230V/187V~276V	230V/187V~276V	230V/187V~276V
AC grid frequency/range	50Hz/45Hz~55Hz	50Hz/45Hz~55Hz	50Hz/45Hz~55Hz	50Hz/45Hz~55Hz	50Hz/45Hz~55Hz	50Hz/45Hz~55Hz	50Hz/45Hz~55Hz
Max. output current	10.8A	13A	16A	17.4A	20A	21.7A	26A
Adjustable power factor	0.8leading~0.8lagging	0.8leading~0.8lagging	0.8leading~0.8lagging	0.8leading~0.8lagging	0.8leading~0.8lagging	0.8leading~0.8lagging	0.8leading~0.8lagging
THDI	<3%	<3%	<3%	<3%	<3%	<3%	<3%
AC grid connection type	L/N/PE	L/N/PE	L/N/PE	L/N/PE	L/N/PE	L/N/PE	L/N/PE
Output Data (Backup Power)							
AC nominal power	2500W	3000W	3000W	3000W	3000W	3000W	3000W
Max. AC apparent power	2500VA	3680VA	3680VA	3680VA	3680VA	3680VA	3680VA
Nominal AC voltage/range	230V/187V~276V	230V/187V~276V	230V/187V~276V	230V/187V~276V	230V/187V~276V	230V/187V~276V	230V/187V~276V
AC grid frequency/range	50Hz/45Hz~55Hz	50Hz/45Hz~55Hz	50Hz/45Hz~55Hz	50Hz/45Hz~55Hz	50Hz/45Hz~55Hz	50Hz/45Hz~55Hz	50Hz/45Hz~55Hz
THDv	<5%	<5%	<5%	<5%	<5%	<5%	<5%
Efficiency							
Max. efficiency	98.2%	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
Euro-eta	97.6%	97.6%	97.8%	98.0%	98.0%	98.0%	98.0%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Protection Devices							
DC reverse-polarity protection	yes	yes	yes	yes	yes	yes	yes
DC switch	yes	yes	yes	yes	yes	yes	yes
DC Surge protection	Type II	Type II	Type II	Type II	Type II	Type II	Type II
AC surge protection-varistor	yes	yes	yes	yes	yes	yes	yes
AC short-circuit protection	yes	yes	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes	yes	yes
Residual-current monitoring unit	yes	yes	yes	yes	yes	yes	yes
AFCI protection	opt	opt	opt	opt	opt	opt	opt
General Data							
Dimensions (W / H / D) in mm	375/350/160	375/350/160	375/350/160	375/350/160	375/350/160	375/350/160	375/350/160
Weight	10.8KG	10.8KG	10.8KG	10.8KG	10.8KG	10.8KG	10.8KG
Operating temperature range	- 25°C ... + 60°C	- 25°C ... + 60°C	- 25°C ... + 60°C	- 25°C ... + 60°C	- 25°C ... + 60°C	- 25°C ... + 60°C	- 25°C ... + 60°C
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)
Altitude	4000m	4000m	4000m	4000m	4000m	4000m	4000m
Self-Consumption night	< 1W	< 1W	< 1W	< 1W	< 1W	< 1W	< 1W
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Nature Convection	Nature Convection	Nature Convection	Nature Convection	Nature Convection	Nature Convection	Nature Convection
Environmental Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Relative humidity	100%	100%	100%	100%	100%	100%	100%
Features							
DC connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
AC connection	Connector	Connector	Connector	Connector	Connector	Connector	Connector
Display	OLED+LED/WIFI+APP	OLED+LED/WIFI+APP	OLED+LED/WIFI+APP	OLED+LED/WIFI+APP	OLED+LED/WIFI+APP	OLED+LED/WIFI+APP	OLED+LED/WIFI+APP
Interfaces: RS485/USB Wi-Fi/GPRS/4G/RF	yes / yes / opt/opt/opt/opt	yes / yes / opt/opt/opt/opt	yes / yes / opt/opt/opt/opt	yes / yes / opt/opt/opt/opt	yes / yes / opt/opt/opt/opt	yes / yes / opt/opt/opt/opt	yes / yes / opt/opt/opt/opt
Warranty: 5 / 10 years	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt

CE, IEC62109, AS/NZS 4777.2, CEI 0-21, VDE-AR-N 4105, VDE 0126-1-1, UTE C 15-712-1, EN 50438,EN 50549, IEC 62116, IEC 61727, G98/G99

Growatt 3000~6000TL3-S



- Max. Efficiency 98%
 - Dual MPP trackers
- Supports export limitation
 - Integrated DC switch
- Max. DC voltage 1000VDC
 - Natural cooling

Datasheet	3000TL3-S	4000TL3-S	5000TL3-S	6000TL3-S
Input Data				
Max. recommended PV power (for module STC)	4000W	5320W	6650W	8000W
Max. DC voltage	1000V	1000V	1000V	1000V
Start Voltage	140V	140V	140V	140V
MPP work voltage range	160V-1000V	200V-1000V	200V-1000V	200V-1000V
Nominal voltage	620V	620V	620V	620V
Max. input current	11A/11A	11A/11A	11A/11A	11A/11A
Number of independent MPP trackers/strings per MPP tracker	2/1	2/1	2/1	2/1
Output (AC)				
Rated AC output power	3000W	4000W	5000W	6000W
Max. AC apparent power	3000VA	4000VA	5000VA	6000VA
Max. output current	5.1A	6.8A	8.5A	10.2A
AC nominal voltage	230V/400V; 320-478V	230V/400V; 320-478V	230V/400V; 320-478V	230V/400V; 320-478V
AC grid frequency	50Hz/60Hz , ±5Hz	50Hz/60Hz , ±5Hz	50Hz/60Hz , ±5Hz	50Hz/60Hz , ±5Hz
Power factor	0.8leading - 0.8laging	0.8leading - 0.8laging	0.8leading - 0.8laging	0.8leading - 0.8laging
THDi	<3%	<3%	<3%	<3%
AC grid connection type	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE
Efficiency				
Max.efficiency	97.5%	97.8%	98.0%	98.0%
Euro - eta	96.5%	96.7%	96.9%	97.1%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%
Protection Devices				
DC reverse polarity protection	yes	yes	yes	yes
DC switch	yes	yes	yes	yes
Output over current protection	yes	yes	yes	yes
Output AC overvoltage Protection - Varistor	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes
Integrated all-pole sensitive leakage current monitoring unit	yes	yes	yes	yes
General Data				
Dimensions (W / H / D) in mm	480/448/200	480/448/200	480/448/200	480/448/200
Weight	21.2KG	21.2KG	21.2KG	21.2KG
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emission (typical)	≤35 dB(A)	≤35 dB(A)	≤35 dB(A)	≤35 dB(A)
Altitude	3000m	3000m	3000m	3000m
Self-consumption night	< 0.5W	< 0.5W	< 0.5W	< 0.5W
Topology	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Natural	Natural	Natural	Natural
Environmental Protection Rating	IP65	IP65	IP65	IP65
Relative humidity	0~100%	0~100%	0~100%	0~100%
Features				
DC connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
AC connection	Connector	Connector	Connector	Connector
Display	LCD	LCD	LCD	LCD
Interfaces:RS232/RS485/RF/Ethernet/Wi-Fi	yes/yes/opt/opt/opt	yes/yes/opt/opt/opt	yes/yes/opt/opt/opt	yes/yes/opt/opt/opt
Warranty:5 years/10 years	yes/opt	yes/opt	yes/opt	yes/opt

CE, IEC 62109-1/2, VDE 0126-1-1, Greece, UTE C 15-712, VDE-AR-N4105, G83, EN50438, CEI 0-21, AS4777, IEC 61727, IEC 62116, CQC

Growatt 7000~11000TL3-S



- Max. Efficiency 98. 4%
 - Dual MPP trackers
- Supports export limitation
 - Integrated DC switch
- Max. DC voltage 1000VDC
 - Natural cooling

Datasheet	7000TL3-S	8000TL3-S	9000TL3-S	10000TL3-S	11000TL3-S
Input Data					
Max. recommended PV power (for module STC)	9310W	10640W	12000W	13300W	14700W
Max. DC voltage	1000V	1000V	1000V	1000V	1000V
Start Voltage	160V	160V	160V	160V	160V
MPP work voltage range	200V-1000V	200V-1000V	200V-1000V	200V-1000V	200V-1000V
Nominal voltage	600V	600V	600V	600V	600V
Max. input current	11.5A/11.5A	11.5A/11.5A	11.5A/11.5A	13A/13A	13A/13A
Number of independent MPP trackers/strings per MPP tracker	2/1	2/1	2/1	2/1	2/1
Output (AC)					
Rated AC output power	7kW	8kW	9kW	10kW	11kW
Max. AC apparent power	7.7kVA	8.8kVA	9.9kVA	11kVA	12.1kVA
Max. output current	11.7A	13.3A	15A	16.7A	18.3A
AC nominal voltage	230V/400V; 320-478V	230V/400V; 320-478V	230V/400V; 320-478V	230V/400V; 320-478V	230V/400V; 320-478V
AC grid frequency	50Hz/60Hz, ±5Hz	50Hz/60Hz, ±5Hz	50Hz/60Hz, ±5Hz	50Hz/60Hz, ±5Hz	50Hz/60Hz, ±5Hz
Power factor	0.8leading - 0.8laging	0.8leading - 0.8laging	0.8leading - 0.8laging	0.8leading - 0.8laging	0.8leading - 0.8laging
THDi	<3%	<3%	<3%	<3%	<3%
AC grid connection type	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE
Efficiency					
Max.efficiency	98.3%	98.3%	98.4%	98.4%	98.4%
Euro - eta	97.5%	97.8%	98%	98%	98%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%	99.5%
Protection Devices					
DC reverse polarity protection	yes	yes	yes	yes	yes
DC switch	yes	yes	yes	yes	yes
Output over current protection	yes	yes	yes	yes	yes
Output AC overvoltage Protection - Varistor	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 / H / D) in mm	480/448/200	480/448/200	480/448/200	480/448/200	480/448/200
Weight	21.6KG	21.6KG	21.6KG	21.6KG	21.6KG
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emission (typical)	≤35 dB(A)	≤35 dB(A)	≤35 dB(A)	≤35 dB(A)	≤35 dB(A)
Altitude	3000m	3000m	3000m	3000m	3000m
Self-consumption night	< 0.5W	< 0.5W	< 0.5W	< 0.5W	< 0.5W
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Natural	Natural	Natural	Natural	Natural
Environmental Protection Rating	IP65	IP65	IP65	IP65	IP65
Relative humidity	0~100%	0~100%	0~100%	0~100%	0~100%
Features					
DC connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
AC connection	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal
Display	LCD	LCD	LCD	LCD	LCD
Interfaces:RS232/RS485/RF/Wi-Fi	yes/yes/opt/opt	yes/yes/opt/opt	yes/yes/opt/opt	yes/yes/opt/opt	yes/yes/opt/opt
Warranty:5 years/10 years	yes/opt	yes/opt	yes/opt	yes/opt	yes/opt

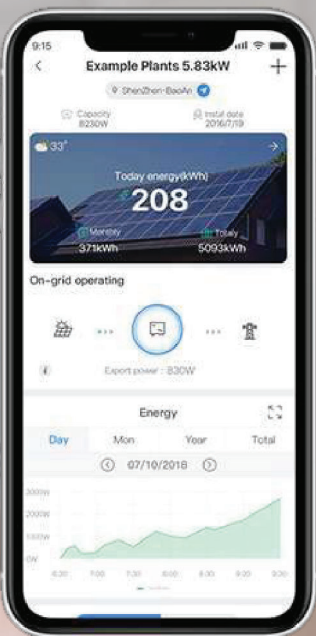
CE, IEC 62109-1/2, VDE 0126-1-1, Greece, VFR 2014, VDE-AR-N4105, G83, EN50438, CEI 0-21, AS4777, IEC 61727, IEC 62116, CQC

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Powerful Monitoring Platform



ShineServer



ShinePhone



Awesome display interface

Everything at a glance

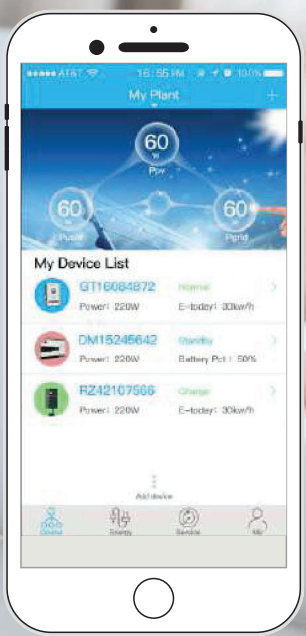
Powerful Cloud Server

Maintain and update your system
Anytime and anywhere

Smart Online Service System (OSS)



OSS



Monitoring and configure all your devices

Remote parameter setting and FW update

Online failure reporting

Real-time online Q&A

PROJECT CASES



Australia,Sydney
-8KW
- MIN 4000TL-X*2

PROJECT CASES



German, Munich
-10KW
-Growatt 10000TL3-S*1



PROJECT CASES



Netherlands, Rotterdam

- 1KW
- Growatt 1000-S*1

PROJECT CASES



Ningbo China

- 1000+
- Growatt 4200MTL-S
- Growatt 5000MTL-S
- Growatt 6000MTL-S



PROJECT CASES

Australia,Melbourne

-10KW

-MIN 5000TL-X*2

