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Three Phase Inverter-US

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Monitoring System

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Project List

P₃₁



Service





A New Milestone for Photovoltaic

As the CEO of Growatt New Energy, I am very honored to commercial and large-scale power plants applications. recommend our excellent team, our high-efficiency and costeffective inverters, energy storage products, as well as smart energy management system and other supporting service to all the partners.

Known by all the customers, Growatt is a new energy company based on an R&D team with 10 years experience in PV and power industry. Growatt team has always been committed to more costeffective new energy product design and maintains sustainable progress. The technology and product performance has been assessed A level by world first-class certification company and EPC company.

Growatt has been engaged in solar photovoltaic inverter and energy storage system since 2010, and until now its products have covered over 100 countries worldwide, quickly growing into the world leading supplier of cost-effective inverters with high efficiency.

Growatt has a full range of inverters from 1kW to 2.52MW, and flexible energy storage solutions, as well as smart energy management system, which are well suited to residential,

In residential solar application, Growatt provides high efficiency and compact inverters and storage products to customers with a simple and intelligent user experience. Meanwhile, it has won a more extensive global market coverage, and stands out from other manufacturers.

In commercial and large-scale power station applications, more stable and effective inverters together with smart energy management system also give customers more cost competitive

With the efficient products, Growatt offers every customer comprehensive pre-sales and after-sales service, to ensure the optimal products for customized demands. For customers, Growatt is more than just a supplier, but a more reliable partner.



About Growatt

Growatt New Energy Technology Co., Ltd was established on May 2010, a professional new energy company focusing on photovoltaic inverters, energy storage products, as well as smart energy monitoring and management system. Until now, Growatt total shipment is over 670,000, and covers more than 100 countries in Europe, America, Africa, and Asia Pacific, famous as a world leading manufacturer of cost-effective photovoltaic inverters with high efficiency.

Our Products

Growatt offers a full range of PV products with leading-edge technology, including 1-50kW string inverters, 100kW-2.52MW central inverters, storage solutions, smart energy monitoring and managing system, which are completely applicable for residential, industrial and commercial rooftop, large-scale ground plants and storage system.

Our Achievement

At the start of 2012, Sequoia Capital and China Merchants invested in Growatt strategically, which is the basis for the high and stable development of Growatt. With the excellent performance in both domestic and international market, Growatt has been awarded with some honorable titles, like "2012 Fastest Growing Company" "2013 Top 10 Enterprises of Innovation in China" "Most Competitive PV Inverter Company in China" "2014 Top 10 String Inverter Manufactures in China" "2015 Top 10 Most Popular PV Inverter Company in China" "2016 The No.1 Residential Inverter Provider in China" etc. Growatt has been the largest inverter exporter for 7 years, being the most popular Chinese inverter supplier in global market.

Growatt, with big steps, is developing to be the Growatt Group, which will consist of 7 business departments, i.e. 1-50kW string inverters, 100kW-2.52MW central inverters, energy storage products, smart energy monitoring and managing system, electric vehicle charger, solar system EPC, and investment business dept., and determined to be the leader of Chinese user-side smart energy solution provider.

Our R&D and Service Team

With an R&D team more than 100 engineers, 40% of the staff, who has been deeply engaged in the photovoltaic industry for 10 years, thanks to the expertise of its engineers Growatt is currently holding more than 50 patents, Growatt takes the mission to increase the products availability and efficiency, putting continuous innovation to make Growatt products easier for installation and operation, and more cost-effective for solar plant construction.

Other than the R&D team, building an elite service team is Growatt's another goal. In Growatt, service is not only the basic principle, but also blends into the hearts of the staff, and reflects in the daily work of everyone. In order to improve the service system worldwide, Growatt has established branch offices in Frankfurt, Sydney, Los Angeles, Oxford, Chennai, Bangkok, Shenzhen, Hongkong, Beijing and Suzhou.

Certification





























































With World-class **Components Suppliers**

Growatt chooses world-class suppliers to ensure the high quality of its products. With top-class partners Growatt provides inverters with high quality and efficiency to the whole world.













IC

Capacitor

Relay

Mos IGBT



















Single Phase Inverter-US

500-US | 4000MTLI 000-US | 5000MTLI 000-US | 6000MTLI 7000MTLI 3000MTLP-US 3000MTLP-US

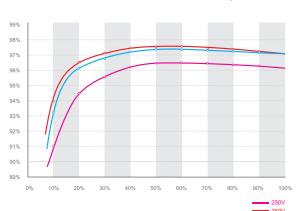
Growatt 1500-US | 2000-US 3000-US



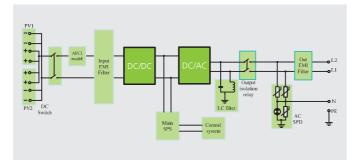
Leading - edge Technology

- Maximum efficiency of 97% and wide input voltage range
- Internal DC switch
- Transformerless GT topology
- Compact design
- MTL String
- Ethernet / RF technology / WiFi
- Sound control
- Easy installation

Growatt 3000-US efficiency



Growatt 1.5-3K US topology



Datasheet	Growatt 1500-US	Growatt 2000-US	Growatt 3000-US
Input Data			
Max. DC power	1800W	2300W	3200W
Max. recommend PV power	2000W	2500W	3500W
Max. DC voltage Start voltage	450V 150V	500V 150V	500V 150V
DC nominal voltage	360V	360V	360V
PV voltage range	100V - 450V	100V - 500V	100V - 500V
MPP voltage range	120V - 400V	120V - 450V	120V - 450V
Number of independent MPP trackers/strings per MPP tracker	1/1	1/2	1/2
Max. input current of the MPP tracker	12A	14A	17A
Output (AC)			
Rated AC output power	1500W@208Vac 1650W@240Vac	1800W@208Vac 2000W@240Vac	2500W@208Vac 2800W@240Vac
AC nominal voltage; range	Default:240V single pha	se, optional:208 single phase; 183-228@2	208V, 211-264V@240V
AC grid frequency; range	60Hz; 59.3-60.5Hz	60Hz; 59.3-60.5Hz	60Hz; 59.3-60.5Hz
Max. output current	8A / 7.8A	9.7A / 9.4A	15A / 14.2A
Phase shift (cosφ)	1	1	1
THDI	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase
Efficiency			
Max.efficiency	97%	97%	97%
CEC effciency	96%	96.5%	96.5%
MPPT efficiency	99.5%	99.5%	99.5%
Protection Devices —			
DC reverse polarity protection	yes	yes	yes
DC switch for each MPPT	yes	yes	yes
Output over current protection	yes	yes	yes
Output overvoltage protection-varistor	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
AFCI compliant to UL 1699B	yes	yes	yes
General Data			
Dimensions (W / H / D) in inch	14.1/18.3/6.5	14.1/18.3/6.5	14.1/18.3/6.5
Weight	14.6kg/32.2lb	15.1kg/33.3lb	15.9kg/35.0lb
Operating temperature range	-25+60°C/(-13+ 140°F)	-25+60°C/(-13+ 140°F)	-25+60°C/(-13+ 140°F)
Full load temperature range	-25+45°C/(-13+ 113°F)	-25+45°C/(-13+ 113°F)	-25+45°C/(-13+ 113°F)
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)
Self-Consumption (night)	< 0.5 W	< 0.5 W	< 0.5 W
Topology	Transformerless	Transformerless	Transformerless
Cooling concept	Natural cooling	Natural cooling	Natural cooling
Enclosure	NEMA 3R	NEMA 3R	NEMA 3R
Altitude	2000m without derating	2000m without derating	2000m without derating
Humidity	100%	100%	100%
Features -			
DC connection	Screw terminal	Screw terminal	Screw terminal
AC connection	Screw terminal	Screw terminal	Screw terminal
Display	LCD	LCD	LCD
Interfaces: RS232/RS485/RF/ Ethernet/WiFi/Zigbee/Cellular	yes/yes/opt/ opt/opt/opt	yes/yes/opt/ opt/opt/opt	yes/yes/opt/ opt/opt/opt
Revenue grade data, ANSI C12.1	opt	opt	opt
Warranty: 5 years / 10 years / 15 years	yes / yes / opt	yes / yes / opt	yes / yes / opt

UL1741,UL1998 ,IEEE 1547, CSA C22.2 No.107.1-1,FCC Part15(Class A&B),UL1699B

Certificates and Approvals

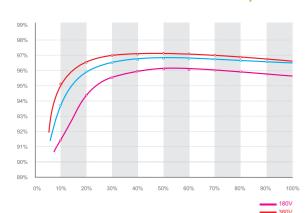
Growatt 4000MTLP-US | 5000MTLP-US | 6000MTLP-US | 7000MTLP-US | 7600MTLP-US



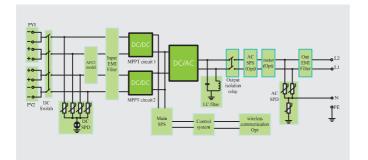
Leading - edge Technology

- Maximum efficiency of 97.5% and wide input voltage range
- Internal DC switch
- Transformerless GT topology
- Compact design
- Multi MPP tracker
- Sound control
- Easy installation
- MTL String
- Ethernet / RF technology / WiFi
- Reactive power control

Growatt 7600MTLP-US efficiency



Growatt 4-7.6K MTLP-US topology



Datasheet Growatt 4000MTLP-US Growatt 5000MTLP-US Growatt 6000MTLP-US Growatt 7000MTLP-US Growatt 7600MTLP-US

May names MADDT	4000/400000	E000/E00011	5000/500011	7000/:000::	7660/1006
Max. power per MPPT	4000/4000W	5000/5000W	6000/6000W	7000/4800W	7600/4800W
Max. usable input current per MPPT	18A/18A	18A/18A	18A/18A	20A/10A	20A/10A
Max. short circuit input current per inverter	42A	47A	56A	47A	47A
Startup voltage	150V	150V	150V	150V	150V
Max. voltage	600V	600V	600V	600V	600V
DC nominal voltage MPPT tracker	360V	360V	360V	360V	360V
DC voltage range	100-600V	100-600V	100-600V	100-600V	100-600V
MPP operating voltage range	120-500V	120-500V	120-500V	120-500V	120-500V
Number of MPPT	2	2	2	2	2
Inputs per MPPT	2/2	2/2	2/2	2/1	2/1
Output Data —————					
Nominal output power	4000W	5000W	6000W	7000W	7600W
Max. Continuous output current	16.7A	21A	25A	29A	31.7A
Max. over current protection device	21A	26A	31A	36A	40A
Operating frequency/range	60/59.5~60.5	60/59.5~60.5	60/59.5~60.5	60/59.5~60.5	60/59.5~60.5
Ambient operating temperature range(full load)	-25°C~45°C (−13+ 113°F)				
AC nominal voltage; range	Default:240V spli	it-phase, optional:208V & 24	OV & 277V single phase , 183	3-228@208V 211-264V@240	V 244-305@277V
Phase shift (cosφ)	Default: 0.99, opt Reactive power adjust / range:-0.85~+0.85				
THDI	<3%	<3%	<3%	<3%	<3%
Efficiency ————					
Max.efficiency	97.2%	97.5%	97.5%	97.4%	97.3%
CEC weighted efficiency	96%	96.5%	96.5%	97%	97%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%	99.5%
General Data					
Integrated DC disconnect	yes	yes	yes	yes	yes
DC reverse polarity protection	yes	yes	yes	yes	yes
Output overvoltage protection-varistor	yes	yes	yes	yes	yes
Output over current 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
Compliant to UL 1699B	yes	yes	yes	yes	yes
Features —					
	20 74*15 75*0 46	20 74*15 75*0 40	20 74*15 75*0 46*	20 74*15 75*0 46*	20 74*45 75*2
Dimensions(W* H*D)	28.74*15.75*8.46in	28.74*15.75*8.46in	28.74*15.75*8.46in	28.74*15.75*8.46in	28.74*15.75*8.4
Weight Enclosure	31.5kg/69.4Lb NEMA 4X	31.5kg/69.4Lb NEMA 4X	32kg/70.5Lb NEMA 4X	32kg/70.5Lb NEMA 4X	32kg/70.5Lb NEMA 4X
Enclosure Cooling concept	natural cooling	natural cooling	natural cooling	natural cooling	natural cooling
Тороlogy	Transformer-less	Transformer-less	Transformer-less	Transformer-less	Transformer-le
Relative humidity	100%	100%	100%	100%	100%
Altitude			00m(6560ft) without power		200,0
Noise emission (typical)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)
Consumption: standby	<5W	<5W	<5W	<5W	<5W
Revenue Grade Meter	opt	opt	opt	opt	opt
Display	LCD	LCD	LCD	LCD	LCD
RS485/ShineLink RF/Wifi/Ethernet/Zigbee/ Cellular	yes/opt/opt/opt/opt/ opt	yes/opt/opt/opt/opt/ opt	yes/opt/opt/opt/opt/ opt	yes/opt/opt/opt/opt/ opt	yes/opt/opt/opt/opt/opt
Warranty: 5years/10years/15years	yes/yes/opt	yes/yes/opt	yes/yes/opt	yes/yes/opt	yes/yes/opt

Certificates and Approvals

UL1741,UL1998 ,IEEE 1547, CSA C22.2 No.107.1-1,FCC Part15(Class A&B),UL1699B

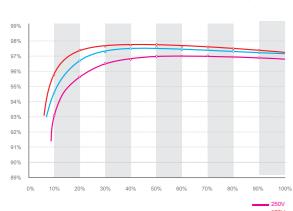
Growatt 8000MTLP-US | 9000MTLP-US 10000MTLP-US



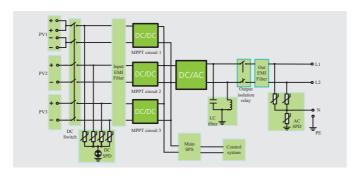
Leading - edge Technology

- Maximum efficiency of 97.8% and wide input voltage range
- Internal DC switch
- Transformerless GT topology
- Compact design
- Multi MPP tracker
- Sound control
- Easy installation MTL String
- Ethernet / RF technology / WiFi

Growatt 10000MTLP-US efficiency



Growatt 8-10K MTLP-US topology



Datasheet	Growatt 8000MTLP-US	Growatt 9000MTLP-US	Growatt 10000MTLP-US
Input Data —————————————————————————————————			
Max. input power per MPP tracker	3250/3250/6500W	3250/3250/6500W	3250/3250/6500W
Max. DC voltage	600V	600V	600V
Start voltage	150V	150V	150V
DC rated voltage	360V	360V	360V
PV voltage range	100-600V	100-600V	100-600V
MPP voltage range	120-500V	120-500V	120-500V
Full load DC voltage range per MPP tracker	315-480V	315-480V	315-480V
Number of MPP trackers	3	3	3
strings per MPP tracker	1/1/2	1/1/2	1/1/2
Max. operating current per MPP tracker	9.5/9.5/19A	9.5/9.5/19A	9.5/9.5/19A
Output (AC)			
Nominal AC output power	8000W	9000W	10000W
Max. output current	33.5A	37.5A	42A
AC nominal voltage/range	Default:240V split-phase, o	optional:208V & 240V single phase , 183-2	29@208V 211-264V@240V
AC grid frequency; range	60 Hz / 59.3~60.5 Hz	60 Hz / 59.3~60.5 Hz	60 Hz / 59.3~60.5 Hz
Power factor	1	1	1
THDI	<3%	<3%	<3%
AC connection	single phase	single phase	single phase
Efficiency —			
Max.efficiency	97.8%	97.8%	97.8%
CEC-Weighted Efficiency	97%	97%	97%
MPPT efficiency	99.5%	99.5%	99.5%
Protection Devices -			
DC reverse-polarity protection	yes	yes	yes
Input over voltage protection- Varistor	opt	opt	opt
Arc detection(AFCI)	yes	yes	yes
DC insulation measure	yes	yes	yes
AC short circuit protection	yes	yes	yes
Output over voltage protection- Varistor	yes	yes	yes
General Data			
Dimensions (W / H / D)	14/27.3/8.3inch (355/694/210 mm)	14/27.3/8.3inch (355/694/210 mm)	14/27.3/8.3inch (355/694/210 mi
Weight	30kg/66lb	30kg/66lb	30kg/66lb
Operating temperature range	-25+60°C/(-13+140°F)	-25+60°C/(-13+ 140°F)	-25+60°C/(-13+ 140°F)
Noise emission	< 25dB	< 25dB	< 25dB
Relative Humidity	0~100%	0~100%	0~100%
Altitude	2000m without derating	2000m without derating	2000m without derating
Consumption: operating (standby) / night	<5W / <0.5W	<5W / <0.5W	<5W / <0.5W
Topology	Transformerless	Transformerless	Transformerless
Cooling concept	natural cooling	natural cooling	natural cooling
Enclosure	NEMA 4X	NEMA 4X	NEMA 4X
Features ————————————————————————————————————			
Display	LCD	LCD	LCD
Interfaces: RS485/ShineLink RF/Wifi/	yes/opt/opt/ opt/opt	yes/opt/opt/ opt/opt	yes/opt/opt/ opt/opt/opt
Ethernet/Zigbee/Cellular	ορι/ορι/ορι	οριγοριγορι	000,000

UL1741,UL1998,IEEE1547,FCC part 15(class B),CSA C22.2 No.107.1,UL1699B(type 1)

Certificates and Approvals





Three Phase Inverter-US

.0000TL3-US 2000TL3-US 8000TL3-US

.3-US 36000TL3-.3-US 40000TL3-



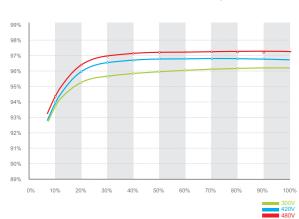
Growatt 10000TL3-US | 12000TL3-US | 18000TL3-US | 20000TL3-US



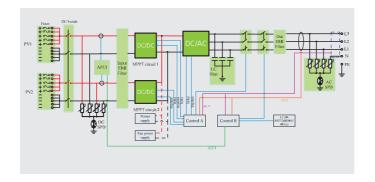
Leading - edge Technology

- Special for commercial plant application
- Dual independent MPP tracking and advanced MPPT algorithms lead to optimal energy harvesting
- Consistent and stable performance across entire input voltage and output power range
- Integrated DC disconnect switch
- High efficiency of 97.5% delivery more energy
- Ethernet / RF technology / WiFi
- Easy installation and maintenance procedure
- Innovative device designed and Intelligent applications
- Comprehensive protection for IGBTs, overvoltage, short-circuit, overload, overheat, etc
- Flexible system design with safety fuse module, lightning protection module and AFCI module





Growatt 10-20K TL3-US topology



Datasheet	Growatt 10000TL3-US	Growatt 12000TL3-US	Growatt 18000TL3-US	Growatt 20000TL3-US
Input Data				
Max. recommended PV power	12500W	15000W	21600W	24000W
Max. DC power	10500W	12500W	18750W	20850W
Max. DC voltage	600V	600V	600V	600V
Start voltage	120V	120V	120V	120V
DC nominal voltage	375V	375V	375V	375V
PV voltage range	80V - 600V	80V - 600V	80V - 600V	80V - 600V
MPP voltage range (Full load)	250V - 600V	250V - 600V	250V - 600V	250V - 600V
Number of independent MPP trackers/strings per MPP tracker	2/3	2/3	2/5	2/5
Max. input current of MPP Tracker A / Tracker B	21A / 21A	25A / 25A	38A / 38A	42A / 42A
Max. input short circuit current	32A / 32A	32A / 32A	50A / 50A	50A / 50A
Output (AC)				
Rated AC output power	10000W	12000W	18000W	20000W
Rated AC voltage	480V	480V	480V	480V
AC voltage range	422-528VAC	422-528VAC	422-528VAC	422-528VAC
AC grid frequency; range	60 Hz;59.3-60.5 Hz	60 Hz;59.3-60.5 Hz	60 Hz;59.3-60.5 Hz	60 Hz;59.3-60.5 Hz
Max. output current(cos ϕ =1)	12A	14.5A	21.5A	24A
Power factor ($\cos \varphi$)	>0.99 (0.9Leading - 0.9Lagging)	>0.99 (0.9Leading - 0.9Lagging)	>0.99 (0.9Leading - 0.9Lagging)	>0.99 (0.9Leading - 0.9Lagging)
Harmonics	<3%	<3%	<3%	<3%
Grid connection type	3/N/E	3/N/E	3/N/E	3/N/E
Efficiency —				
Max.efficiency	97%	97%	97.5%	97.5%
CEC-Weighted Efficiency	95.5%	95.5%	96%	96.5%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%
Protection Devices —				
DC switch for each MPP tracker	yes	yes	yes	yes
DC reverse-polarity protection	yes	yes	yes	yes
DC/AC over voltage protection-Varistor	yes	yes	yes	yes
DC/AC over voltage protection -DIN rail surge arrester(Option)	Class II	Class II	Class II	Class II
DC insulation measure	yes	yes	yes	yes
AC short circuit protection	yes	yes	yes	yes
AFCI compliant to UL 1699B	yes	yes	yes	yes
General Data				
Dimensions (W / H / D) in inch	20.9/27.7/9.7	20.9/27.7/9.7	25.6/29.1/9.7	25.6/29.1/9.7
Weight	46kg/101.4lb	46kg/101.4lb	63kg/138.9lb	63kg/138.9lb
Operating temperature range			-	
	-25+60°C/(-13+ 140°F)	-25+60°C/(-13+140°F)	-25+60°C/(-13+ 140°F)	-25+60°C/(-13+ 140°F)
Full load temperature range	-25+45°C/(-13+ 113°F) ≤50dR(A)	-25+45℃/(-13+113℉) <50dR(A)	-25+45°C/(-13+ 113°F) ≤50dR(A)	-25+45°C/(-13+ 113°F)
Noise emission Self-Consumption (night)	≤50dB(A) <3 W	≤50dB(A) < 3 W	≤50dB(A) < 3 W	≤50dB(A) < 3 W
Topology Cooling concept	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Enclosure	NEMA 3R 2000m without derating			
Altitude Relative Humidity	0~100%	0~100%	0~100%	0~100%
Features				
Display	Graphic	Graphic	Graphic	Graphic
	yes / yes /			
Interfaces: RS232/RS485/ Ethernet/RF/WiFi	opt / opt / opt			
Warranty: 5years / 10years / 15years	yes / yes / opt			
Certificates and Approvals				

UL1741,UL1998 ,IEEE 1547, CSA C22.2 No.107.1-1,FCC Part15(Class A&B),UL1699B

Growatt 33000TL3-US | 36000TL3-US 40000TL3-US



Flexible Design

• Maximum DC/AC ratio to 1.5

• 0-90 degree installation angle

Seperate wiring box design

Integrated DC, AC disconnects

• 50 units in parallel per tranformer

• Wide MPPT range for flexible string sizing

Leading - edge Technology

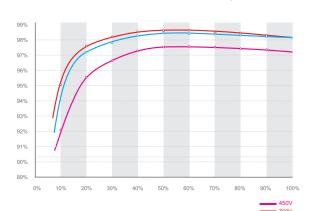
Excellent Performance

- Maximum efficiency of 98.8%, CEC efficiency of 98.5%
- 1000VDC input special for large-scale plant application
- Dual independent MPPT and advanced MPPT algorithms
- lead to optimal energy harvesting
- Consistent and stable performance across entire input voltage and output power range

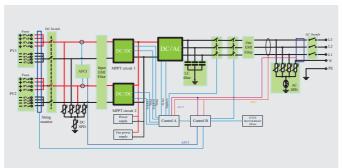
High Reliability

- String level monitoring
- AC power supply enable remote monitoring, upgrading
- Advanced thermal design, with variable speed fans
- Compact design, easy installation and maintenance procesure
- Comprehensive protection for IGBTs, overvoltage, shortcircuit, overload, overheat, etc
- Anti-PID,AC/DC SPD,PV+/-Fuse
- UL 1699B and Rule 21 Compliant

Growatt 33-40K TL3-US topology



Growatt 33000TL3-US efficiency



Growatt 33000 TL3-US Growatt 40000 TL3-US Growatt 36000 TL3-US Input Data (DC) Max. usable DC power 33700W 36750W 40800W Max. DC voltage 1000V 1000V 1000V Start voltage 250V 250V 250V DC nominal voltage 695V 695V 695V PV voltage range 200V-1000V 200V-1000V 200V-1000V MPP voltage range (Full load) 480V-800V 520V-800V 570V-800V Max. input current of the MPP tracker A/tracker B 36A/36A 36A/36A 36A/36A Max. input short circuit current of the MPP tracker A/tracker B 45A/45A 45A/45A 45A/45A Number of independent MPP trackers/ strings per MPP tracker 2/4 2/4 2/4 Output (AC) Nominal output power 33000W/36660VA 36000W/40000VA 40000W/40000VA Nominal AC voltage 480V 480V 480V AC voltage range 422-528VAC 422-528VAC 422-528VAC Nominal AC grid frequency 60 Hz 60 Hz 60 Hz AC grid frequency range 59.3-60.5 Hz 59.3-60.5 Hz 59 3-60 5 Hz Max. output current (cos φ=1) 44A 48A 48A Power factor (cos φ) <3% <3% <3% Grid connection type 3/N/E 3/N/E 3/N/E Efficiency Max.efficiency 98.8% 98.8% 98.8% CEC-Weighted Efficiency 98.5% 98.5% 98.5% MPPT efficiency 99.5% 99.5% 99.5% **Protection Devices** DC reverse-polarity protection yes yes yes DC switch for each MPP tracker yes yes yes ves ves ves Input over voltage protection surge type II type II type II ves ves yes DC insulation measure AC short circuit protection ves ves yes Output over voltage protection surge type II type II type II String fuse type/size yes(15A/1000VDC) yes(15A/1000VDC) yes(15A/1000VDC) AFCI yes(Compliant to UL 1699B) yes(Compliant to UL 1699B) yes(Compliant to UL 1699B) String monitor yes yes yes yes yes yes Anti PID **General Data** Dimensions (W / H / D) in inch 435/790/265mm 17.1/31.1/10.4inch 435/790/265mm 17.1/31.1/10.4inch 435/790/265mm 17.1/31.1/10.4inch Weight 50kg/110.2lb 50kg/110.2lb 50kg/110.2lb Operating temperature range -25..+60°C/(-13...+ 140°F) -25..+60°C/(-13...+ 140°F) -25..+60°C/(-13...+ 140°F) Noise emission ≤50 dB(A) ≤50 dB(A) ≤50 dB(A) Relative Humidity 0~100% 0~100% 0~100% Altitude ≤2000m/6560ft ≤2000m/6560ft ≤2000m/6560ft Self Consumption night <6 W(AC Power Supply) <6 W(AC Power Supply) <6 W(AC Power Supply) Topology Transformerless Transformerless Transformerless Cooling concept Fan Cooling Fan Cooling Fan Cooling Enclosure NEMA 3R NEMA 3R NEMA 3R **Features** Graphic Graphic Graphic Display Interface: RS232/RS485/ yes/yes/ opt/opt /opt yes/yes/ opt/opt /opt yes/yes/ opt/opt /opt Warranty:5years/10years/15years yes/yes/opt yes/yes/opt yes/yes/opt **Certificates and Approvals**

UL1741,UL1998,UL 508C,IEEE1547,FCC part 15(class B),CSA C22.2 No.107.1,CSA C22.2 NO.14





Monitoring System

Residential Solution | Commercial Solution

Residential Solution



Growatt residential monitoring solution takes great care to ensure that your PV system is in a excellent operation throughout its entire life-cycle. We offer you the widest range of possibilities: wireless or cable based, local or internet based, compact or complex.

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ShineWiFi Wireless communication with your router, lower cost

ShineLAN Cable plug and play, easy setting

RS485-RJ45 Local monitoring with Growatt free software

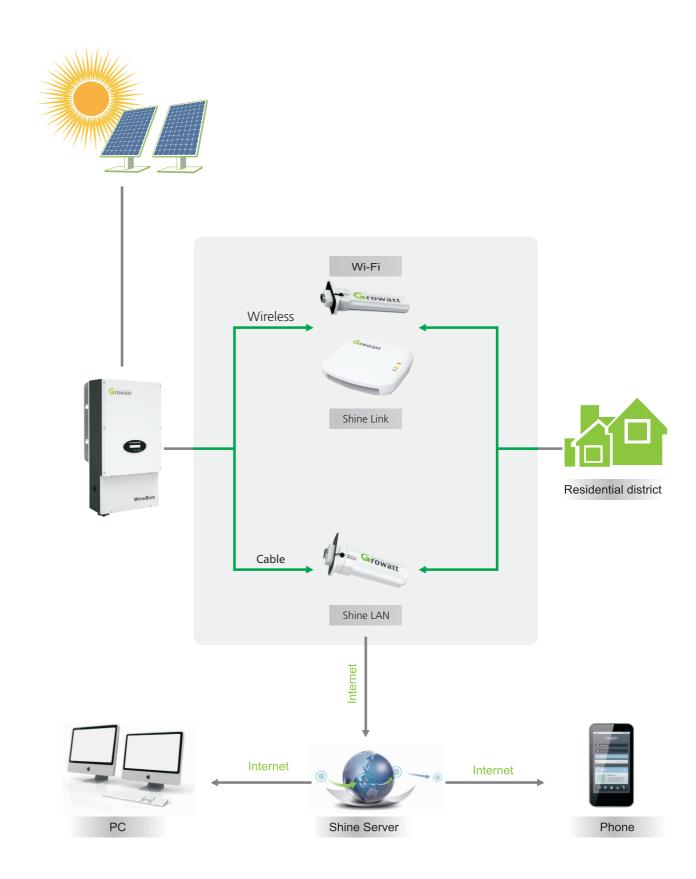
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Intelligant Residential Monitoring System



Commercial Solution



Growatt Monitoring system

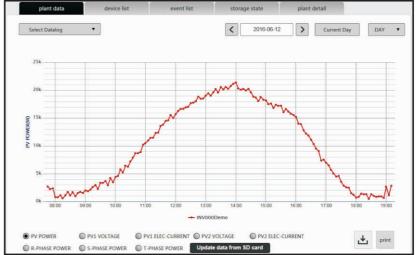
Growatt monitoring system provide you the perfect solution for every application, regardless whether you want to monitor the yield of a commercial PV system or of a large-scale power station.

Through the powerful back-ups from our hardware and software, various communication protocols and interfaces, our customers can simply manage the portfolios of different systems—from commercial roof to utility scale—from any location of the world.

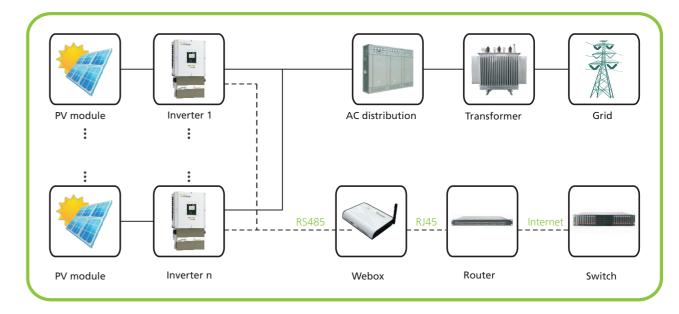
Remote setting and upgrading offer professional monitoring and controlling for decentralized large-scale PV plants.

Commecial Monitoring System





String Inverter Plant Diagram







Service



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Business hotline **818 800 9177**

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