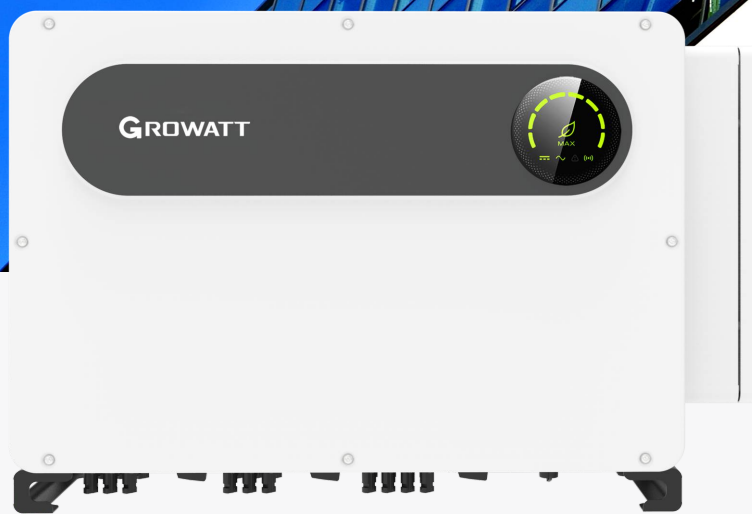
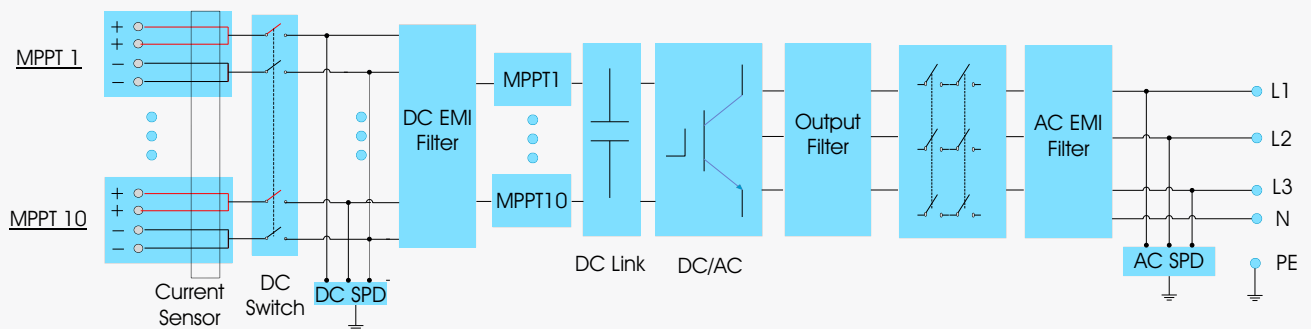


# MAX 100~125KTL3-X LV

- 10 MPPTs fusefree design
- Smart I/V scan and diagnosis
- Intelligent string monitoring
- AC&DC type II SPD
- IP66 protection



## Topology Diagram



Datasheet	MAX 100KTL3-X LV	MAX 110KTL3-X LV	MAX 120KTL3-X LV	MAX 125KTL3-X LV
<b>Input data (DC)</b>				
Max. DC voltage			1100V	
Start voltage			195V	
Nominal voltage			600V	
MPP voltage range			180V-1000V	
No. of MPP trackers			10	
No. of PV strings per MPP tracker			2	
Max. input current per MPP tracker			32A	
Max. short-circuit current per MPP tracker			40A	
<b>Output data (AC)</b>				
AC nominal power	100000W	110000W	120000W	125000W
Max. AC apparent power	110000VA	121000VA	132000VA	137500VA
Nominal AC voltage (range*)	220V/380V, 230V/400V (340-440V)			
AC grid frequency (range*)	50/60 Hz(45~55Hz/55-65 Hz)			
Max. output current	158.8A@400V 167.1A@380V	174.6A@400V 183.8A@380V	190.5A@400V 200.5A@380V	198.5A@400V 208.9A@380V
Adjustable power factor	0.8leading ...0.8lagging			
THDi	<3%			
AC grid connection type	3W/N/PE			
<b>Efficiency</b>				
Max. efficiency			98.8%	
European efficiency	98.4%	98.5%	98.5%	98.5%
MPPT efficiency	99.9%			
<b>Protection devices</b>				
DC reverse polarity protection	Yes			
DC switch	Yes			
AC/DC surge protection	Type II / Type II			
Insulation resistance monitoring	Yes			
AC short-circuit protection	Yes			
Ground fault monitoring	Yes			
String detection	Yes			
Anti PID function	Optional			
Arc fault detection (AFCI)	Optional			
<b>General data</b>				
Dimensions (W / H / D)	970/640/345mm			
Weight	84kg			
Operating temperature range	-30°C ... +60°C			
Nighttime power consumption	< 1W			
Topology	Transformerless			
Cooling	Smart air cooling			
Protection degree	IP66			
Relative humidity	0~100%			
Altitude	4000m			
DC connection	H4/MC4 (Max.6mm <sup>2</sup> )			
AC connection	OT Terminal (Max. 240mm <sup>2</sup> )			
Display	LED/WIFI+APP			
Interfaces: RS485 / USB /PLC/GPRS/4G/WIFI	Yes/Yes/Optional/Optional/Optional/Optional			
Warranty: 5 years / 10 years	Yes /Optional			
CE, UKCA, IEC62116, IEC61727, CQC, VDE0126, VFR2019, EN50549-1/-2, C10/C11, UNE206007, G99 CEI 0-21/0-16, N4105, UNE206006, MEA, PEA, KSC8565				

\* The AC voltage range and frequency range may vary depending on specific country grid standard.  
All specifications are subject to change without notice.

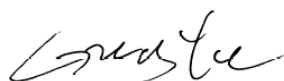
# Certificate of Conformity

Certificate Number: CN-PV-210175

On the basis of the tests undertaken, the samples of the below product have been found to comply with the requirements of the referenced specifications /standards at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture. The manufacturer shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

<b>Applicant:</b>	Shenzhen Growatt New Energy Co., Ltd 2F and 3F, Building 4, Jiayu Company Industrial Park, Xibianling, Shangyu Village, Shiyan Street, Bao'an District, Shenzhen, China
<b>Product:</b>	PV Grid inverter
<b>Ratings &amp; Principle Characteristics:</b>	See Appendix to Certificate of Conformity
<b>Models:</b>	MAX 80KTL3-X LV, MAX 100KTL3-X LV, MAX 110KTL3-X LV, MAX 120KTL3-X LV, MAX 125KTL3-X LV, MAX 133KTL3-X LV, MAX 125KTL3-X MV, MAX 136KTL3-X MV, MAX 150KTL3-X MV
<b>Brand Name:</b>	GROWATT
<b>Tested according to:</b>	IEC/EN 62109-1: 2010 Safety of power converters for use in photovoltaic power systems – Part 1: General requirements IEC/EN 62109-2: 2011 Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters
<b>Certificate Issuing Office Name &amp; Address:</b>	Intertek Testing Services Ltd. Shanghai West Area, 2 <sup>nd</sup> Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China
<b>Test Reports No:</b>	210223038GZU-001 210223038GZU-002

Additional information in Appendix.



**Signature**

**Certification Manager: Grady Ye**

**Date: 15 July 2021**

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

## APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210175

Model	MAX 80KTL3-X LV	MAX 100KTL3-X LV	MAX 110KTL3-X LV	MAX 120KTL3-X LV	MAX 125KTL3-X LV
Max.PV voltage	1100Vdc				
PV voltage range	180V – 1000Vdc				
Max.input current	32A*7	32A*10			
PV Isc	40A*7	40A*10			
Number of strings per MPPT	2				
Nominal output voltage	3W/N/PE, 230/400Vac				
Nominal output Frequency	50/60Hz				
Max.output current	133.7A	167.1A	183.8A	200.5A	208.9A
Max.output power	80KW	100KW	110KW	120KW	125KW
Max.apparent power	88KVA	110KVA	121KVA	132KVA	137.5KVA
Power factor range	0.8Leading – 0.8 lagging				
Safety level	Class I				
Ingress Protection	IP 66				
Operation Ambient Temperature	-30°C - +60°C				

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## APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210175.

Model	MAX 133KTL3-X LV	MAX 125KTL3-X MV	MAX 136KTL3-X MV	MAX 150KTL3-X MV
Max.PV voltage	1100Vdc			
PV voltage range	180V – 1000Vdc			
Max.input current	32A*10			
PV Isc	40A*10			
Number of strings per MPPT	2			
Nominal output voltage	3W/N/PE, 230/400Vac	3W/PE, 277/480Vac		
Nominal output Frequency	50/60Hz			
Max.output current	222.3A	165.4A	179.9A	198.5A
Max.output power	133KW	125KW	136KW	150KW
Max.apparent power	146.3KVA	137.5KVA	149.6KVA	165.0KVA
Power factor range	0.8Leading – 0.8 lagging			
Safety level	Class I			
Ingress Protection	IP 66			
Operation Ambient Temperature	-30°C - +60°C			
Software version	TN1.0			

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