

# MID 15~25KTL3-X

- Max. efficiency 98.75%
- Dual MPP trackers
- Supports export control
- Touch key and OLED display
- Type II SPD on AC and DC side



**GROWATT**

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

Datasheet	MID 15KTL3-X	MID 17KTL3-X	MID 20KTL3-X	MID 22KTL3-X	MID 25KTL3-X
<b>Input data (DC)</b>					
Max. recommended PV power (for module STC)	22500W	25500W	30000W	33000W	37500W
Max. DC voltage	1100V				
Start Voltage	250V				
Nominal voltage	580V				
MPPT voltage range	160V-1000V				
No. of MPP trackers	2				
No. of PV strings per MPP tracker	2	2	2	2	2/3
Max. input current per MPPT tracker*	27A	27A	27A	27A	27A/40.5A
Max. short circuit current per MPPT	33.8A	33.8A	33.8A	33.8A	33.8A/50.7A
<b>Output data (AC)</b>					
Rated AC output power	15000W	17000W	20000W	22000W	25000W
Max. AC apparent power	16600VA	18800VA	22000VA	24400VA	27700VA
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	24.2A	27.4A	31.9A	35.5A	40.2A
Adjustable power factor	0.8leading...0.8lagging				
THDI	<3%				
AC grid connection type	3W+N+PE				
<b>Efficiency</b>					
Max. efficiency	98.75%				
European efficiency	98.6%				
MPPT efficiency	99.9%				
<b>Protection devices</b>					
DC reverse polarity protection	Yes				
DC Switch	Yes				
AC/DC surge protection	TypeII/Type II				
Insulation resistance monitoring	Yes				
AC short-circuit protection	Yes				
Ground fault monitoring	Yes				
Grid monitoring	Yes				
Anti-islanding protection	Yes				
Residual-current monitoring unit	Yes				
String monitoring	Yes				
AFCI protection	Optional				
<b>General data</b>					
Dimensions (W / H / D)	525/395/222mm				
Weight	23kg				
Operating temperature range	-25 °C ... +60 °C				
Self-Consumption (night)	<1W				
Topology	Transformerless				
Cooling	Smart air cooling				
Protection degree	IP65				
Relative Humidity	0-100%				
Altitude	4000m				
DC connection	H4/MC4(Optional)				
AC connection	Cable gland+OT terminal				
Display	OLED+LED/WIFI+APP				
Interfaces: RS485 / USB / WIFI/ GPRS / RF/ LAN	Yes/Yes /Optional/Optional/Optional/Optional				
Warranty: 5 years / 10 years	Yes /Optional				

CE, VDE0126, Greece, EN50549, C10/C11, UTE C 15-712, IEC62116, IEC61727, IEC 60068, IEC 61683, CEI0-21, N4105, TOR Erzeuger, G98/G99, G100, UNE217001, UNE206007, PO12.2, KSC8565

\* The AC voltage range and frequency range may vary depending on specific country grid standard. All specifications are subject to change without notice.  
\* Only the latest version with max. input current 13.5A per string, for details please contact Growatt.

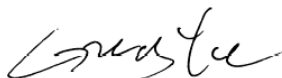
# Certificate of Conformity

Certificate Number: CN-PV-200078

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 Technology CO.,Ltd 1st East & 3rd Floor of Building A, Building B, Jiayu Industrial Park, #28, GuangHui Road, LongTeng Community, Shiyan Street, Baoan District, Shenzhen, P. R. China
<b>Product:</b>	PV Grid inverter
<b>Ratings &amp; Principle Characteristics:</b>	See Appendix to Certificate of Conformity
<b>Models:</b>	MID 10KTL3-X, MID 12KTL3-X, MID 15KTL3-X, MID 17KTL3-X, MID 20KTL3-X, MID 22KTL3-X, MID 25KTL3-X
<b>Brand Name:</b>	Growatt
<b>Tested according to:</b>	EN 50549-1: February 2019 Requirements for generating plants to be connected in parallel with distribution networks Part 1: Connection to a LV distribution network - Generating plants up to and including Type B Compliant with COMMISSION REGULATION(EU)2016/631(NC RfG) Type approval for type B
<b>Certificate Issuing Office Name &amp; Address:</b>	Intertek Testing Services Ltd. Shanghai 2/F (West Side), No. 707, Zhangyang Road, Free Trade Experimental Area, Shanghai, P. R. China
<b>Test Reports No:</b>	190416198GZU-001, Revision 1: 14 Jul 2020

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 17 July 2020

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## APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-200078

### Ratings & Principle Characteristics:

Maximum d.c. input voltage: 1100 Vdc

Input voltage range: 160-1000Vdc

MPPT voltage range (full Load): 280-850 V (for MID 10KTL3-X, MID 12KTL3-X);

420-850 V (for MID 15KTL3-X); 480-850 V (for MID 17KTL3-X, MID 20KTL3-X);

520-850 V (for MID 22KTL3-X, MID 25KTL3-X);

Max. input current: 2x25A (for the models except MID 25KTL3-X),

25/37.5A (for MID 25KTL3-X)

PV Isc: 2x32A (for the models except MID 25KTL3-X), 32/48A (for MID 25KTL3-X)

Nominal output voltage: 3W/N/PE 230V/400Vac

Max. output current: 16.1A (for MID 10KTL3-X); 19.3A (for MID 12KTL3-X);

24.2A (for MID 15KTL3-X); 27.4A (for MID 17KTL3-X); 31.9 A (for MID 20KTL3-X);

35.5A (for MID 22KTL3-X); 40.2 A (for MID 25KTL3-X)

Nominal frequency: 50/60 Hz

Max. output power: 10000W (for MID 10KTL3-X); 12000W (for MID 12KTL3-X);

15000W (for MID 15KTL3-X); 17000W (for MID 17KTL3-X); 20000W (for MID

20KTL3-X); 22000W (for MID 22KTL3-X); 25000W (for MID 25KTL3-X)

Max. apparent power: 11100VA (for MID 10KTL3-X); 13300VA (for MID 12KTL3-X);

16600VA (for MID 15KTL3-X); 18800VA (for MID 17KTL3-X); 22000VA (for MID

20KTL3-X); 24400VA (for MID 22KTL3-X); 27700VA (for MID 25KTL3-X)

Power factor range: 0.8 leading ~ 0.8 lagging

Safety level: Class I

Ingress protection: IP65

Operating temperature range: -25 ~ +60°C

Software Version: TJ1.0