

Declaration Of Compliance

We, The Manufacturer

SHENZHEN GROWATT NEW ENERGY TECHNOLOGY CO.,LTD

Declare The Products:

MIC 1000TL-X, MIC 1500TL-X, MIC 2000TL-X, MIC 2500TL-X, MIC3000TL-X,
Growatt 1500-S, Growatt 2000-S, Growatt 3000-S,
Growatt 3600MTL-S, Growatt4200MTL-S, Growatt 5500MTL-S,
Growatt 7000MTL-S, Growatt 8000MTL-S, Growatt8000MTLP-S,
Growatt9000MTLP-S,Growatt10500MTLP-S
MIN 2500TL-X, MIN 3000TL-X, MIN 4200TL-X, MIN 5000TL-X, MIN 6000TL-X
Growatt 18000UE, Growatt 20000UE, Growatt 7000TL3-S, Growatt 8000TL3-S,
Growatt 10000TL3-S, Growatt11000TL3-S, Growatt 12000TL3-S, Growatt15000TL3-S,
Growatt 17000TL3-S, Growatt20000TL3-S, Growatt25000TL3-S,
Growatt 30000TL3-S, Growatt 33000TL3-S, Growatt 40000TL3-NS
MAX50KTL3 LV, MAX60KTL3 LV, MAX70KTL3 LV, MAX75KTL3 LV, MAX80KTL3 LV
MAX80KTL3 MV,MAX90KTL3 MV,MAX100KTL3 MV
Growatt 15000TL3-SL, Growatt20000TL3-SL, Growatt22000TL3-SL
MID15KTL3-X, MID17KTL3-X,MID20KTL3-X,MID22KTL3-X,MID25KTL3-X;
MID25KTL3-X1,MID30KTL3-X,MID33KTL3-X, MID36KTL3-X,MID40KTL3-X
MAC50KTL3-X LV/MAC50KTL3-X MV,MAC60KTL3-X LV/MAC60KTL3-X MV
MAC70KTL3-X MV
MAX 185KTL3-X HV, MAX 216KTL3-X HV, MAX 250KTL3-X HV, MAX 253KTL3-X HV,
MOD 10KTL3-X, MOD 11KTL3-X, MOD 12KTL3-X, MOD 13KTL3-X, MOD 15KTL3-X
MIN 7000TL-X (E) , MIN 8000TL-X (E) , MIN 9000TL-X ,MIN 10000TL-X
MAX100KTL3-X LV, MAX110KTL3-X LV ,MAX120KTL3-X LV ,MAX125KTL3-X LV
MAC 15KTL3-XL, MAC 20KTL3-XL, MAC 22KTL3-XL MAC 25KTL3-XL, MAC 30KTL3-XL, MAC
36KTL3-XL
MID 10K TL3-XL, MID 12K TL3-XL, MID 15K TL3-XL, MID 20K TL3-XL

The Growatt inverters listed above comply with the relevant requirements of the Brazilian standard:
ABNT NBR 16149:2013 Sistemas fotovoltaicos (FV) – Características da interface de conexão com
a rede elétrica de distribuição – Primeira edição (01.03.2013)

[Photovoltaic (PV) systems – Characteristics of the utility interface – first edition, March 01-2013]

As results after internal testing made in accordance to the applicable conformance test protocol:

ABNT NBR 16150:2013 Sistemas fotovoltaicos (FV) — Características da interface de conexão
com a rede elétrica de distribuição — Procedimento de ensaio de conformidade - Primeira edição
(04.03.2013)

[Photovoltaic (PV) systems – Characteristics of the utility interface – Conformity test procedure.

First edition, March 04-2013]

ABNT NBR 62116-2012 Procedimento de ensaio de anti-ilhamento para inversores de sistemas

fotovoltaico conectados à rede.

Please refer to the conditions and restriction of use specified in the table, as well as in the following notes.

Inverter Model	Power	Nominal voltage/frequency No. of phase	Cos(phi)=f(p)	Reactive Power Capability	FRT capability
Growatt 1500-S	1.5kw	220V/230V/240V/60Hz,1-phase	No	No	Yes
Growatt 2000-S	2kw	220V/230V/240V/60Hz,1-phase	No	No	Yes
Growatt 3000-S	3kw	220V/230V/240V/60Hz,1-phase	No	No	Yes
Growatt 3600MTL-S	3.6kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
Growatt 4200MTL-S	4.2kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
Growatt 5500MTL-S	5kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
Growatt 7000MTL-S,	7kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
Growatt 8000MTL-S,	8kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
Growatt8000MTLP-S	8kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
Growatt9000MTLP-S	9kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
Growatt10500MTLP-S	10.5kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
MIN 2500TL-X	2.5kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
MIN 3000TL-X	3kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
MIN 4200TL-X	4.2kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
MIN 5000TL-X	5kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
MIN 6000TL-X	6kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
Growatt 18000UE	18kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 20000UE	20kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 11000TL3-S	11kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 12000TL3-S	12kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 13000TL3-S	13kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 15000TL3-S	15kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 17000TL3-S	17kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 20000TL3-S	20kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 25000TL3-S	25kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 30000TL3-S	30kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 33000TL3-S	33kw	380V/60Hz,3-phase	Yes	Yes	Yes
Growatt 40000TL3-NS	40kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX50KTL3 LV	50kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX60KTL3 LV	60kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX70KTL3 LV	70kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX75KTL3 LV	75kw	380V/60Hz,3-phase	Yes	Yes	Yes

MAX80KTL3 LV	80kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX80KTL3 MV	80kw	480V/60Hz,3-phase	Yes	Yes	Yes
MAX90KTL3 MV	90kw	480V/60Hz,3-phase	Yes	Yes	Yes
MAX100KTL3 MV	100kw	480V/60Hz,3-phase	Yes	Yes	Yes
Growatt 15000TL3-SL	15kw	220V/60Hz,3-phase	Yes	Yes	Yes
Growatt 20000TL3-SL	20kw	220V/60Hz,3-phase	Yes	Yes	Yes
Growatt 22000TL3-SL	22kw	220V/60Hz,3-phase	Yes	Yes	Yes
MID17KTL3-X	17kw	380V/60Hz,3-phase	Yes	Yes	Yes
MID20KTL3-X	20kw	380V/60Hz,3-phase	Yes	Yes	Yes
MID22KTL3-X	22kw	380V/60Hz,3-phase	Yes	Yes	Yes
MID25KTL3-X	25kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAC50KTL3-X LV	50kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAC50KTL3-X MV	50kw	480V/60Hz,3-phase	Yes	Yes	Yes
MAC60KTL3-X LV	60kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAC60KTL3-X MV	60kw	480V/60Hz,3-phase	Yes	Yes	Yes
MAC70KTL3-X MV	70kw	480V/60Hz,3-phase	Yes	Yes	Yes
MID25KTL3-X1	25kw	380V/60Hz,3-phase	Yes	Yes	Yes
MID30KTL3-X	30kw	380V/60Hz,3-phase	Yes	Yes	Yes
MID33KTL3-X	33kw	380V/60Hz,3-phase	Yes	Yes	Yes
MID36KTL3-X	36kw	380V/60Hz,3-phase	Yes	Yes	Yes
MID40KTL3-X	40kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX 185KTL3-X HV	185kw	800V/60Hz,3-phase	Yes	Yes	Yes
MAX 216KTL3-X HV	216kw	800V/60Hz,3-phase	Yes	Yes	Yes
MAX 250KTL3-X HV	250kw	800V/60Hz,3-phase	Yes	Yes	Yes
MAX 253KTL3-X HV	253kw	800V/60Hz,3-phase	Yes	Yes	Yes
MOD 10KTL3-X	10kw	380V/60Hz,3-phase	Yes	Yes	Yes
MOD 11KTL3-X	11kw	380V/60Hz,3-phase	Yes	Yes	Yes
MOD 12KTL3-X	12kw	380V/60Hz,3-phase	Yes	Yes	Yes
MOD 13KTL3-X	13kw	380V/60Hz,3-phase	Yes	Yes	Yes
MOD 15KTL3-X	15kw	380V/60Hz,3-phase	Yes	Yes	Yes
MIC 1000TL-X	1kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
MIC 1500TL-X	1.5kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
MIC 2000TL-X	2kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
MIC 2500TL-X	2.5kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
MIC 3000TL-X	3kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
MIN 7000TL-X (E)	7kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
MIN 8000TL-X (E)	8kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
MIN 9000TL-X	9kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
MIN 10000TL-X	10kw	220V/230V/240V/60Hz,1-phase	Yes	Yes	Yes
MAX100KTL3-X LV	100kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX110KTL3-X LV	110kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX120KTL3-X LV	120kw	380V/60Hz,3-phase	Yes	Yes	Yes

MAX125KTL3-X LV	125kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAC 15KTL3-XL	15kw	220V/60Hz,3-phase	Yes	Yes	Yes
MAC 20KTL3-XL	20kw	220V/60Hz,3-phase	Yes	Yes	Yes
MAC 22KTL3-XL	22kw	220V/60Hz,3-phase	Yes	Yes	Yes
MAC 25KTL3-XL	25kw	220V/60Hz,3-phase	Yes	Yes	Yes
MAC 30KTL3-XL	30kw	220V/60Hz,3-phase	Yes	Yes	Yes
MAC 36KTL3-XL	36kw	220V/60Hz,3-phase	Yes	Yes	Yes
MID 10K TL3-XL	10kw	220V/60Hz,3-phase	Yes	Yes	Yes
MID 12K TL3-XL	12kw	220V/60Hz,3-phase	Yes	Yes	Yes
MID 15K TL3-XL	15kw	220V/60Hz,3-phase	Yes	Yes	Yes
MID 20K TL3-XL	20kw	220V/60Hz,3-phase	Yes	Yes	Yes

Manufacturer

Shenzhen Growatt New Energy Technology CO., LTD

R&D Director

Mr.Woody Wu

Woody
2020.1.10

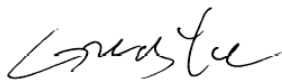
Certificate of Conformity

Certificate Number: CN-PV-190029

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.

Applicant:	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
Product:	PV Grid inverter
Ratings & Principle Characteristics:	See Appendix to Certificate of Conformity
Models:	MID 10KTL3-X, MID 12KTL3-X, MID 15KTL3-X, MID 17KTL3-X, MID 20KTL3-X, MID 22KTL3-X, MID 25KTL3-X
Brand Name:	Growatt
Tested according to:	IEC 61727:2004 Photovoltaic (PV) systems – Characteristics of the utility interface IEC 62116:2014 Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai 2/F (West Side), No. 707, Zhangyang Road, Free Trade Experimental Area, Shanghai, P. R. China
Test Reports No:	190416203GZU-001, 190416203GZU-002

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 12 October 2019

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-190029.

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 10KTL3-X, MID 12KTL3-X, 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: 2×25A (for the models except MID 25KTL3-X), 25/37.5A (for MID 25KTL3-X)
PV Isc: 2×32A (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

Declaration Of Compliance

We, The Manufacturer
SHENZHEN GROWATT NEW ENERGY CO.,LTD

Declare The Products:

MIC 1000TL-X, MIC 1500TL-X, MIC 2000TL-X, MIC 2500TL-X, MIC3000TL-X,
MIN 2500TL-X, MIN 3000TL-X, MIN 4200TL-X, MIN 5000TL-X, MIN 6000TL-X
MAX50KTL3 LV, MAX60KTL3 LV, MAX70KTL3 LV, MAX75KTL3 LV, MAX80KTL3 LV
MAX80KTL3 MV,MAX90KTL3 MV,MAX100KTL3 MV
MID15KTL3-X,MID17KTL3-X,MID20KTL3-X,MID22KTL3-X,MID25KTL3-X;
MID25KTL3-X1,MID30KTL3-X,MID33KTL3-X, MID36KTL3-X,MID40KTL3-X
MAC50KTL3-X LV/MAC50KTL3-X MV,MAC60KTL3-X LV/MAC60KTL3-X MV
MAC70KTL3-X MV
MAX 185KTL3-X HV,MAX 216KTL3-X HV, MAX 250KTL3-X HV,MAX 253KTL3-X HV,
MOD 10KTL3-X, MOD 11KTL3-X, MOD 12KTL3-X, MOD 13KTL3-X, MOD 15KTL3-X
MIN 7000TL-X (E) ,MIN 8000TL-X (E) ,MIN 9000TL-X ,MIN 10000TL-X
MAX100KTL3-X LV, MAX110KTL3-X LV ,MAX120KTL3-X LV ,MAX125KTL3-X LV
MAC 15KTL3-XL, MAC 20KTL3-XL, MAC 22KTL3-XL MAC 25KTL3-XL, MAC 30KTL3-XL,
MAC 36KTL3-XL
MID 10K TL3-XL, MID 12K TL3-XL, MID 15K TL3-XL, MID 20K TL3-XL
MAX 50 KTL3-XL2, MAX 60 KTL3-XL2, MAX 70 KTL3-XL2, MAX 75KTL3-XL2,

The Growatt inverters listed above comply with the relevant requirements of the Brazilian standard:

ABNT NBR 16149:2013 Sistemas fotovoltaicos (FV) – Características da interface de conexão com a rede elétrica de distribuição – Primeira edição (01.03.2013)

[Photovoltaic (PV) systems – Characteristics of the utility interface – first edition, March 01-2013]

As results after internal testing made in accordance to the applicable conformance test protocol:

ABNT NBR 16150:2013 Sistemas fotovoltaicos (FV) — Características da interface de conexão com a rede elétrica de distribuição — Procedimento de ensaio de conformidade - Primeira edição (04.03.2013)

[Photovoltaic (PV) systems – Characteristics of the utility interface – Conformity test procedure. First edition, March 04-2013]

ABNT NBR 62116-2012 Procedimento de ensaio de anti-ilhamento para inversores de sistemas fotovoltaico conectados à rede.

Please refer to the conditions and restriction of use specified in the table, as well as in the following notes.

Inverter Model	Power	Nominal voltage/frequency No. of phase	Cos(phi)=f(p)	Reactive Power Capability	FRT capability
MIC 1000TL-X	1kw	220V/60Hz,1-phase	Yes	Yes	Yes
MIC 1500TL-X	1.5kw	220V/60Hz,1-phase	Yes	Yes	Yes
MIC 2000TL-X	2kw	220V/60Hz,1-phase	Yes	Yes	Yes
MIC 2500TL-X	2.5kw	220V/60Hz,1-phase	Yes	Yes	Yes
MIC 3000TL-X	3kw	220V/60Hz,1-phase	Yes	Yes	Yes
MIN 2500TL-X	2.5kw	220V/60Hz,1-phase	Yes	Yes	Yes
MIN 3000TL-X	3kw	220V/60Hz,1-phase	Yes	Yes	Yes
MIN 4200TL-X	4.2kw	220V/60Hz,1-phase	Yes	Yes	Yes
MIN 5000TL-X	5kw	220V/60Hz,1-phase	Yes	Yes	Yes
MIN 6000TL-X	6kw	220V/60Hz,1-phase	Yes	Yes	Yes
MIN 7000TL-X(E)	7kw	220V/60Hz,1-phase	Yes	Yes	Yes
MIN 8000TL-X(E)	8kw	220V/60Hz,1-phase	Yes	Yes	Yes
MIN 9000TL-X	9kw	220V/60Hz,1-phase	Yes	Yes	Yes
MIN 10000TL-X	10kw	220V/60Hz,1-phase	Yes	Yes	Yes
MID 10K TL3-XL	10kw	220V/60Hz,3-phase	Yes	Yes	Yes
MID 12K TL3-XL	12kw	220V/60Hz,3-phase	Yes	Yes	Yes
MID 15K TL3-XL	15kw	220V/60Hz,3-phase	Yes	Yes	Yes
MID 20K TL3-XL	20kw	220V/60Hz,3-phase	Yes	Yes	Yes
MAC 15KTL3-XL	15kw	220V/60Hz,3-phase	Yes	Yes	Yes
MAC 20KTL3-XL	20kw	220V/60Hz,3-phase	Yes	Yes	Yes
MAC 22KTL3-XL	22kw	220V/60Hz,3-phase	Yes	Yes	Yes
MAC 25KTL3-XL	25kw	220V/60Hz,3-phase	Yes	Yes	Yes
MAC 30KTL3-XL	30kw	220V/60Hz,3-phase	Yes	Yes	Yes
MAC 36KTL3-XL	36kw	220V/60Hz,3-phase	Yes	Yes	Yes
MAX 50 KTL3-XL2	50kW	220V/60Hz,3-phase	Yes	Yes	Yes
MAX 60 KTL3-XL2	60kW	220V/60Hz,3-phase	Yes	Yes	Yes
MAX 70 KTL3-XL2	70kW	220V/60Hz,3-phase	Yes	Yes	Yes
MAX 75 KTL3-XL2	75kW	220V/60Hz,3-phase	Yes	Yes	Yes
MOD 10KTL3-X	10kw	380V/60Hz,3-phase	Yes	Yes	Yes
MOD 11KTL3-X	11kw	380V/60Hz,3-phase	Yes	Yes	Yes
MOD 12KTL3-X	12kw	380V/60Hz,3-phase	Yes	Yes	Yes
MOD 13KTL3-X	13kw	380V/60Hz,3-phase	Yes	Yes	Yes
MOD 15KTL3-X	15kw	380V/60Hz,3-phase	Yes	Yes	Yes
MID17KTL3-X	17kw	380V/60Hz,3-phase	Yes	Yes	Yes
MID20KTL3-X	20kw	380V/60Hz,3-phase	Yes	Yes	Yes
MID22KTL3-X	22kw	380V/60Hz,3-phase	Yes	Yes	Yes
MID25KTL3-X	25kw	380V/60Hz,3-phase	Yes	Yes	Yes
MID25KTL3-X1	25kw	380V/60Hz,3-phase	Yes	Yes	Yes
MID30KTL3-X	30kw	380V/60Hz,3-phase	Yes	Yes	Yes
MID33KTL3-X	33kw	380V/60Hz,3-phase	Yes	Yes	Yes

深圳古瑞瓦特新能源有限公司
Shenzhen Growatt New Energy Co.,Ltd

MID36KTL3-X	36kw	380V/60Hz,3-phase	Yes	Yes	Yes
MID40KTL3-X	40kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAC50KTL3-X LV	50kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAC60KTL3-X LV	60kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX50KTL3 LV	50kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX60KTL3 LV	60kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX70KTL3 LV	70kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX75KTL3 LV	75kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX80KTL3 LV	80kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX100KTL3-X LV	100kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX110KTL3-X LV	110kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX120KTL3-X LV	120kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAX125KTL3-X LV	125kw	380V/60Hz,3-phase	Yes	Yes	Yes
MAC50KTL3-X MV	50kw	480V/60Hz,3-phase	Yes	Yes	Yes
MAC60KTL3-X MV	60kw	480V/60Hz,3-phase	Yes	Yes	Yes
MAC70KTL3-X MV	70kw	480V/60Hz,3-phase	Yes	Yes	Yes
MAX80KTL3 MV	80kw	480V/60Hz,3-phase	Yes	Yes	Yes
MAX90KTL3 MV	90kw	480V/60Hz,3-phase	Yes	Yes	Yes
MAX100KTL3 MV	100kw	480V/60Hz,3-phase	Yes	Yes	Yes
MAX 185KTL3-X HV	185kw	800V/60Hz,3-phase	Yes	Yes	Yes
MAX 216KTL3-X HV	216kw	800V/60Hz,3-phase	Yes	Yes	Yes
MAX 250KTL3-X HV	250kw	800V/60Hz,3-phase	Yes	Yes	Yes
MAX 253KTL3-X HV	253kw	800V/60Hz,3-phase	Yes	Yes	Yes

Manufacturer:

Shenzhen Growatt New Energy CO., LTD

R&D Director
Mr. Woody Wu

Woody
2020.1.10



CCIC Southern Testing Co., Ltd.

Attestation Of Conformity

CERTIFICATE NO.: SET2020-00207

Product: PV Grid Inverter

Model: MID 25KTL3-X

Applicant: Shenzhen Growatt New Energy Technology Co., LTD

Address: 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

This is to certify that, on the basis of the tests undertaken as per Report No. **SET2020-00207**, the submitted sample of the above item complies with:

EN 62109-1:2010
EN 62109-2 :2011

and fulfils testing requirement of the LVD directive 2014/35/EU



Note: The model MID 10KTL3-X/ MID 12KTL3-X/ MID 15KTL3-X/ MID 17KTL3-X/ MID 20KTL3-X/ MID 22KTL3-X/ MID 25KTL3-X the difference as below: same appearance and structure, the control circuits and power circuit have same schemem, different only in electrical rating and voltage sampling circuit.

Signed for and on behalf of

CCIC Southern Testing Co., Ltd.

Kang Qing Yi, Manager

Date of Issue: Jan. 03, 2020

CCIC Southern Testing Co., Ltd.

Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan District,

Shenzhen, 518055, P. R. China

Tel:86-0755-26627338 Fax:86-0755-26627238 <http://www.ccic-set.com>



CCIC Southern Testing Co., Ltd.

Attestation Of Conformity

CERTIFICATE NO.: SET2020-00162

Product: PV Grid Inverter

Model: MID 25KTL3-X

Applicant: Shenzhen Growatt New Energy Technology Co., LTD

Address: 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

This is to certify that, on the basis of the tests undertaken as per Report No. **SET2019-17174**, the submitted sample of the above item complies with:

EN 61000-6-2:2005
EN 61000-6-3:2007+A1:2011
IEC 61000-3-11:2000
IEC 61000-3-12:2011

and fulfils testing requirement of the EMC directive 2014/30/EU



Note: The model MID 10KTL3-X/ MID 12KTL3-X/ MID 15KTL3-X/ MID 17KTL3-X/ MID 20KTL3-X/ MID 22KTL3-X/ MID 25KTL3-X the difference as below: same appearance and structure, the control circuits and power circuit have same schemem, different only in electrical rating and voltage sampling circuit.

Signed for and on behalf of

CCIC Southern Testing Co., Ltd.

Zhao Yan Ni

Date of Issue: Jan. 07, 2020

Zhao Yan Ni, Vice Director

CCIC Southern Testing Co., Ltd.

Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan District,

Shenzhen, 518055, P. R. China

Tel:86-0755-26627338 Fax:86-0755-26627238 <http://www.ccic-set.com>



CCIC Southern Testing Co., Ltd.

Attestation Of Conformity

CERTIFICATE NO.: SET2020-00162

Product: PV Grid Inverter

Model: MID 25KTL3-X

Applicant: Shenzhen Growatt New Energy Technology Co., LTD

Address: 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

This is to certify that, on the basis of the tests undertaken as per Report No. **SET2019-17174**, the submitted sample of the above item complies with:

EN 61000-6-2:2005
EN 61000-6-3:2007+A1:2011

and fulfils testing requirement of the EMC directive 2014/30/EU



Note: The model MID 10KTL3-X/ MID 12KTL3-X/ MID 15KTL3-X/ MID 17KTL3-X/ MID 20KTL3-X/ MID 22KTL3-X/ MID 25KTL3-X the difference as below: same appearance and structure, the control circuits and power circuit have same schemem, different only in electrical rating and voltage sampling circuit.

Signed for and on behalf of

CCIC Southern Testing Co., Ltd.

Zhao Yan Ni

Date of Issue: Jan. 07, 2020

Zhao Yan Ni, Vice Director

CCIC Southern Testing Co., Ltd.

Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan District,

Shenzhen, 518055, P. R. China

Tel:86-0755-26627338 Fax:86-0755-26627238 <http://www.ccic-set.com>

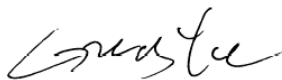
Certificate of Conformity

Certificate Number: CN-PV-190029

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.

Applicant:	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
Product:	PV Grid inverter
Ratings & Principle Characteristics:	See Appendix to Certificate of Conformity
Models:	MID 10KTL3-X, MID 12KTL3-X, MID 15KTL3-X, MID 17KTL3-X, MID 20KTL3-X, MID 22KTL3-X, MID 25KTL3-X
Brand Name:	Growatt
Tested according to:	IEC 61727:2004 Photovoltaic (PV) systems – Characteristics of the utility interface IEC 62116:2014 Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai 2/F (West Side), No. 707, Zhangyang Road, Free Trade Experimental Area, Shanghai, P. R. China
Test Reports No:	190416203GZU-001, 190416203GZU-002

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 12 October 2019

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-190029.

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 10KTL3-X, MID 12KTL3-X, 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: 2×25A (for the models except MID 25KTL3-X), 25/37.5A (for MID 25KTL3-X)
PV Isc: 2×32A (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

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.



CCIC Southern Testing Co., Ltd.

Attestation Of Conformity

CERTIFICATE NO.: SET2020-00207

Product: PV Grid Inverter

Model: MID 25KTL3-X

Applicant: Shenzhen Growatt New EnergyTechnology Co.,LTD

Address: 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

This is to certify that, on the basis of the tests undertaken as per Report No.
SET2020-00207, the submitted sample of the above item complies with:

EN 62109-1:2010
EN 62109-2 :2011

and fulfils testing requirement of the LVD directive 2014/35/EU



Note: The model MID 10KTL3-X/ MID 12KTL3-X/ MID 15KTL3-X/ MID 17KTL3-X/ MID 20KTL3-X/
MID 22KTL3-X/ MID 25KTL3-X the difference as below: same appearance and structure, the
control circuits and power circuit have same schemem, different only in electrical rating
and voltage sampling circuit.

Signed for and on behalf of

CCIC Southern Testing Co., Ltd.

Kang Qing Yi, Manager

Date of Issue: Jan. 03, 2020

CCIC Southern Testing Co., Ltd.

Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan District,

Shenzhen, 518055, P. R. China

Tel:86-0755-26627338 Fax:86-0755-26627238 <http://www.ccic-set.com>



CCIC Southern Testing Co., Ltd.

Attestation Of Conformity

CERTIFICATE NO.: SET2020-00162

Product: PV Grid Inverter

Model: MID 25KTL3-X

Applicant: Shenzhen Growatt New Energy Technology Co., LTD

Address: 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

This is to certify that, on the basis of the tests undertaken as per Report No. **SET2019-17174**, the submitted sample of the above item complies with:

EN 61000-6-2:2005
EN 61000-6-3:2007+A1:2011
IEC 61000-3-11:2000
IEC 61000-3-12:2011

and fulfils testing requirement of the EMC directive 2014/30/EU



Note: The model MID 10KTL3-X/ MID 12KTL3-X/ MID 15KTL3-X/ MID 17KTL3-X/ MID 20KTL3-X/ MID 22KTL3-X/ MID 25KTL3-X the difference as below: same appearance and structure, the control circuits and power circuit have same schemem, different only in electrical rating and voltage sampling circuit.

Signed for and on behalf of

CCIC Southern Testing Co., Ltd.

Zhao Yan Ni

Date of Issue: Jan. 07, 2020

Zhao Yan Ni, Vice Director

CCIC Southern Testing Co., Ltd.

Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan District,

Shenzhen, 518055, P. R. China

Tel:86-0755-26627338 Fax:86-0755-26627238 <http://www.ccic-set.com>

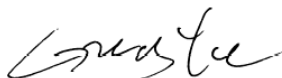
Certificate of Conformity

Certificate Number: CN-PV-190029

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.

Applicant:	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
Product:	PV Grid inverter
Ratings & Principle Characteristics:	See Appendix to Certificate of Conformity
Models:	MID 10KTL3-X, MID 12KTL3-X, MID 15KTL3-X, MID 17KTL3-X, MID 20KTL3-X, MID 22KTL3-X, MID 25KTL3-X
Brand Name:	Growatt
Tested according to:	IEC 61727:2004 Photovoltaic (PV) systems – Characteristics of the utility interface IEC 62116:2014 Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai 2/F (West Side), No. 707, Zhangyang Road, Free Trade Experimental Area, Shanghai, P. R. China
Test Reports No:	190416203GZU-001, 190416203GZU-002

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 12 October 2019

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-190029.

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 10KTL3-X, MID 12KTL3-X, 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: 2×25A (for the models except MID 25KTL3-X), 25/37.5A (for MID 25KTL3-X)
PV Isc: 2×32A (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

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