

# MAC 15~36KTL3-XL

- 3 MPPTs
- 220V Three Phase Solution
- OLED display and touch button
- Local WIFI+APP maintenance
- Maximum efficiency of 98.8%



P O W E R  
- I N G  
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**Growatt**

Datasheet	MAC 15KTL3-XL	MAC 20KTL3-XL	MAC 22KTL3-XL	MAC 25KTL3-XL	MAC 30KTL3-XL	MAC 36KTL3-XL
<b>Input data(DC)</b>						
Max. recommended PV power (for module STC)	19500W	26000W	28600W	32500W	39000W	46800W
Max.DC voltage	1100V	1100V	1100V	1100V	1100V	1100V
Start voltage	250V	250V	250V	250V	250V	250V
Nominal voltage	360V	360V	360V	360V	360V	360V
MPP voltage range	200V-1000V	200V-1000V	200V-1000V	200V-1000V	200V-1000V	200V-1000V
No. of MPP trackers	3	3	3	3	3	3
No. of PV strings per MPP trackers	4/4/4	4/4/4	4/4/4	4/4/4	4/4/4	4/4/4
Max. input current per MPP trackers	46A/46A/46A	46A/46A/46A	46A/46A/46A	46A/46A/46A	46A/46A/46A	46A/46A/46A
Max. short-circuit current per MPP trackers	50A/50A/50A	50A/50A/50A	50A/50A/50A	50A/50A/50A	50A/50A/50A	50A/50A/50A
<b>Output data(AC)</b>						
AC nominal power	15000W	20000W	22000W	25000W	30000W	36000W
Max. AC apparent power	16600VA@220VAC	22200VA@220VAC	24400VA@220VAC	27800VA@220VAC	33300VA@220VAC	36000VA@220VAC 39200VA@240VAC
Nominal AC voltage/range	127V/220V 101.6-139.7V	127V/220V 101.6-139.7V	127V/220V 101.6-139.7V	127V/220V 101.6-139.7V	127V/220V 101.6-139.7V	127V/220V 101.6-139.7V
AC grid frequency/range	50/60 Hz 46~54/56~64Hz	50/60 Hz 46~54/56~64Hz	50/60 Hz 46~54/56~64Hz	50/60 Hz 46~54/56~64Hz	50/60 Hz 46~54/56~64Hz	50/60 Hz 46~54/56~64Hz
Nominal AC output current	39.4A	52.5A	57.7A	65.6A	78.8A	94.5A
Max. output current	43.6A	58.3A	64.0A	73.0A	87.4A	94.5A
Power factor(@nominal power)	>0.99	>0.99	>0.99	>0.99	>0.99	>0.99
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 grid connection type	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE
<b>Efficiency</b>						
Max. efficiency	98.8%	98.8%	98.8%	98.8%	98.8%	98.8%
Euro-eta	98.2%	98.2%	98.2%	98.2%	98.2%	98.2%
<b>Protection Devices</b>						
DC reverse-polarity protection	yes	yes	yes	yes	yes	yes
DC switch	yes	yes	yes	yes	yes	yes
DC surge protection	typell	typell	typell	typell	typell	typell
Insulation resistance monitoring	yes	yes	yes	yes	yes	yes
AC surge protection	typell	typell	typell	typell	typell	typell
AC short-circuit protection	yes	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes	yes
Anti-islanding protection	yes	yes	yes	yes	yes	yes
Residual-current monitoring unit	yes	yes	yes	yes	yes	yes
String fuse protection	NO	NO	NO	NO	NO	NO
String monitoring	NO	NO	NO	NO	NO	NO
Anti-PID function	NO	NO	NO	NO	NO	NO
AFCI protection	yes	yes	yes	yes	yes	yes
<b>General Data</b>						
Dimensions(W / H / D) in mm	680/508/281	680/508/281	680/508/281	680/508/281	680/508/281	680/508/281
Weight	≤52kg	≤52kg	≤52kg	≤52kg	≤52kg	≤52kg
Operating temperature range	-25°C ... +60°C (>45°C Derating)	-25°C ... +60°C (>45°C Derating)	-25°C ... +60°C (>45°C Derating)	-25°C ... +60°C (>45°C Derating)	-25°C ... +60°C (>45°C Derating)	-25°C ... +60°C (>45°C Derating)
Noise emission(typical)	≤60dB(A)	≤60dB(A)	≤60dB(A)	≤60dB(A)	≤60dB(A)	≤60dB(A)
Altitude	4000m	4000m	4000m	4000m	4000m	4000m
Internal consumption at night	1W	1W	1W	1W	1W	1W
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Cooling	Fan cooling	Fan cooling	Fan cooling	Fan cooling	Fan cooling	Fan cooling
Electronics protection degree	IP65	IP65	IP65	IP65	IP65	IP65
Relative humidity	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%
DC connection	H4(OPT)	H4(OPT)	H4(OPT)	H4(OPT)	H4(OPT)	H4(OPT)
AC connection	OT Terminal	OT Terminal	OT Terminal	OT Terminal	OT Terminal	OT Terminal
<b>Features</b>						
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
Interfaces:RS485/USB /WIFI/GPRS/4G	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
AC SUPPLY	NO	NO	NO	NO	NO	NO

IEEE1547, UL1741