

# MAC 50~70KTL3-X LV/MV

- 3 MPPTs
- Smart diagnosis
- High efficiency up to 98.8%
- OLED display and touch button
- AC&DC type II SPD



**GROWATT**

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



Datasheet	MAC 50KTL3-X LV	MAC 50KTL3-X MV	MAC 60KTL3-X LV	MAC 60KTL3-X MV	MAC 70KTL3-X MV
<b>Input Data(DC)</b>					
Max. recommended PV power(for module STC)	75000W	75000W	90000W	90000W	105000W
Max.DC voltage			1100V		
Start voltage			250V		
Nominal voltage	600V	700V	600V	700V	700V
MPPT voltage range			200V-1000V		
No. of MPP trackers			3		
No. of PV strings per MPP tracker	4/3/3	4/3/3	4/4/4	4/4/4	4/4/4
Max. input current per MPP tracker	52A/39A/39A	52A/39A/39A	52A/52A/52A	52A/52A/52A	52A/52A/52A
Max. short-circuit current per MPP tracker			55A		
<b>Output Data(AC)</b>					
Rated AC output power	50000W	50000W	60000W	60000W	70000W
Max. AC apparent power	55500VA	55500VA	66600VA	66600VA	77700VA
Nominal AC voltage (range*)	230V/400V (340-440V)	277V/480V (425-540V)	230V/400V (340-440V)	277V/480V (425-540V)	277V/480V (425-540V)
AC grid frequency (range*)			50/60 Hz (45-55Hz/55-65 Hz)		
Max. output current	80.5A	66.9A	96.6A	80.2A	93.6A
Adjustable power factor			0.8leading ...0.8lagging		
THDi			<3%		
AC grid connection type	3W+N+PE	3W+PE	3W+N+PE	3W+PE	3W+PE
<b>Efficiency</b>					
Max. efficiency			98.8%		
European efficiency			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		
Grid monitoring			Yes		
Anti-islanding protection			Yes		
Residual-current monitoring unit			Yes		
<b>General Data</b>					
Dimensions(W / H / D)			680/508/281mm		
Weight			52kg		
Operating temperature range			- 25°C ... +60°C		
Nighttime power consumption			<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			Yes/Yes /Optional/Optional/Optional		
Warranty: 5 years / 10 years			Yes/Optional		

CE, IEC62116, IEC61727, IEC60068, IEC61683, IEEE1547

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