

# MAC 50~70KTL3-X MV

- 3 MPPTs
- Smart diagnosis
- High efficiency up to 98.8%
- Local WIFI connection
- OLED display and touch button
- AC&DC type II SPD
- Data storage up to 25 years
- DC side 2 in 1 connection enabled



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

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Datasheet	MAC 50KTL3-X MV	MAC 60KTL3-X MV	MAC 66KTL3-X MV	MAC 70KTL3-X MV
<b>Input data (DC)</b>				
Max. recommended PV power (for module STC)	75000W	90000W	99000W	105000W
Max.DC voltage	1100V			
Start voltage	250V			
Nominal voltage	700V			
MPPT voltage range	200V-1000V			
No. of MPP trackers	3			
No. of PV strings per MPP tracker	4/3/3	4/4/4	4/4/4	4/4/4
Max. input current per MPP tracker	50A/37.5A/37.5A	50A/50A/50A	50A/50A/50A	50A/50A/50A
Max. short-circuit current per MPP tracker	55A			
<b>Output data (AC)</b>				
Rated AC output power	50000W	60000W	66000W	70000W
Max. AC apparent power	55500VA	66600VA	73300VA	77700VA
Nominal AC voltage (range*)	277V/480V (425-540V)			
AC grid frequency (range*)	50/60 Hz (45-55Hz/55-65 Hz)			
Max. output current	66.9A	80.2A	88.2A	93.6A
Adjustable power factor	0.8leading ...0.8lagging			
THDi	<3%			
AC grid connection type	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			
Noise emission (typical)	≤60dB(A)			
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, IEC 60068, IEC 61683, IEC60529, IEEE1547, UL1741				

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