

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



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



Datasheet	MAC 50KTL3-X MV	MAC 60KTL3-X MV	MAC 70KTL3-X MV
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Input Data			
Max.DC power	65000W	78000W	91000W
Max.DC voltage	1100V	1100V	1100V
Start voltage	250V	250V	250V
Nominal voltage	700V	700V	700V
MPPT voltage range	200V-1000V	200V-1000V	200V-1000V
Max. input current per MPPT	46A/34.5A/34.5A	46A/46A/46A	46A/46A/46A
Number of MPP trackers/ strings per MPP tracker	3/4+4+4	3/4+4+4	3/4+4+4

Output(AC)			
Rated AC output power	50000W	60000W	70000W
Max. AC apparent power	55500VA	66600VA	77700VA
AC nominal voltage	277V/480V	277V/480V	277V/480V
AC grid frequency	50/60 Hz	50/60 Hz	50/60 Hz
Max. output current	66.9A	80.2A	93.6A
Power factor	0.8leading ...0.8lagging	0.8leading ...0.8lagging	0.8leading ...0.8lagging
THDI	<3%	<3%	<3%
AC grid connection type	3W+PE	3W+PE	3W+PE

Efficiency			
Max. efficiency	98.8%	98.8%	98.8%
Euro-eta	98.5%	98.5%	98.5%
MPPT efficiency	99.9%	99.9%	99.9%

Protection Devices			
DC reverse polarity protection	yes	yes	yes
DC switch	yes	yes	yes
DC surge protection	Typell	Typell	Typell
Ground fault monitoring	yes	yes	yes
Output short circuit protection	yes	yes	yes
AC surge protection	Typell	Typell	Typell
AFCI	yes	yes	yes

General Data			
Dimensions(W / H / D) in mm	680/508/281	680/508/281	680/508/281
Weight	≤52kg	≤52kg	≤52kg
Operating temperature range	- 25°C ... +60°C	- 25°C ... +60°C	- 25°C ... +60°C
Noise emission(Typical)	≤60dB(A)	≤60dB(A)	≤60dB(A)
Relative Humidity	0~100%	0~100%	0~100%
Altitude	4000m	4000m	4000m
Self-consumption	<1W	<1W	<1W
Topology	Transformerless	Transformerless	Transformerless
Cooling concept	Smart cooling	Smart cooling	Smart cooling
Environmental Protection Rating	IP65	IP65	IP65

Features			
Display	OLED+LED/WIFI+APP	OLED+LED/WIFI+APP	OLED+LED/WIFI+APP
Interfaces:USB/RS485/GPRS /WIFI/4G	yes/yes/opt/opt/opt	yes/yes/opt/opt/opt	yes/yes/opt/opt/opt
Warranty: 5 years / 10 years	yes/opt	yes/opt	yes/opt

EN 61000-3, EN 61000-6, EN/IEC 62109-1, EN/IEC 62109-2, IEC 60068, IEC61683, IEC62116, IEC 61727
UL1741, UL1741 SA, CA Rule21, UL1998, IEC61547