

# 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



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Datasheet	MAC 50KTL3-X MV	MAC 60KTL3-X MV	MAC 66KTL3-X MV	MAC 70KTL3-X MV
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### Input Data

Max.DC power	65000W	78000W	85800W	91000W
Max.DC voltage	1100V	1100V	1100V	1100V
Start voltage	250V	250V	250V	250V
Nominal voltage	700V	700V	700V	700V
MPPT voltage range	200V-1000V	200V-1000V	200V-1000V	200V-1000V
Max. input current per MPPT	50A/37.5A/37.5A	50A/50A/50A	50A/50A/50A	50A/50A/50A
Number of MPP trackers/ strings per MPP tracker	3/4+3+3	3/4+4+4	3/4+4+4	3/4+4+4

### Output(AC)

Rated AC output power	50000W	60000W	66000W	70000W
Max. AC apparent power	55500VA	66600VA	73300VA	77700VA
AC nominal voltage	277V/480V	277V/480V	277V/480V	277V/480V
AC grid frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Max. output current	66.9A	80.2A	88.2A	93.6A
Power factor	0.8leading ...0.8lagging	0.8leading ...0.8lagging	0.8leading ...0.8lagging	0.8leading ...0.8lagging
THDi	<3%	<3%	<3%	<3%
AC grid connection type	3W+PE	3W+PE	3W+PE	3W+PE

### Efficiency

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

### Protection Devices

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

### General Data

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

### Features

Display	OLED+LED/WIFI+APP	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	yes/yes/opt/opt/opt
Warranty: 5 years / 10 years	yes/opt	yes/opt	yes/opt	yes/opt