

MAC 30~60KTL3-X LV

- 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 30KTL3-X LV	MAC 40KTL3-X LV	MAC 50KTL3-X LV	MAC 60KTL3-X LV
Input Data				
Max.DC power	39000W	52000W	65000W	78000W
Max.DC voltage	1100V	1100V	1100V	1100V
Start voltage	250V	250V	250V	250V
Nominal voltage	600V	600V	600V	600V
MPPT voltage range	200V-1000V	200V-1000V	200V-1000V	200V-1000V
Max. input current per MPPT	37.5A/37.5A/25A	37.5A/37.5A/37.5A	50A/37.5A/37.5A	50A/50A/50A
Number of MPP trackers/ strings per MPP tracker	3/3+3+2	3/3+3+3	3/4+3+3	3/4+4+4
Output(AC)				
Rated AC output power	30000W	40000W	50000W	60000W
Max. AC apparent power	33300VA	44400VA	55500VA	66600VA
AC nominal voltage	230V/400V	230V/400V	230V/400V	230V/400V
AC grid frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Max. output current	48.3A	64.4A	80.5A	96.6A
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+N+PE	3W+N+PE	3W+N+PE	3W+N+PE
Efficiency				
Max. efficiency	98.7%	98.7%	98.7%	98.8%
Euro-eta	98.4%	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
EN 61000-3, EN 61000-6, EN/IEC 62109-1, EN/IEC 62109-2, IEC 60068, IEC61683, IEC62116, IEC 61727				