

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



Datasheet	MAC 30KTL3-X LV	MAC 40KTL3-X LV	MAC 50KTL3-X LV	MAC 60KTL3-X LV
Input data (DC)				
Max. recommended PV power(for module STC)	45000W	60000W	75000W	90000W
Max.DC voltage	1100V			
Start voltage	250V			
Nominal voltage	600V			
MPPT voltage range	200V-1000V			
No. of MPP trackers	3			
No. of PV strings per MPP tracker	3/3/2	3/3/3	4/3/3	4/4/4
Max. input current per MPP tracker	37.5A/37.5A/25A	37.5A/37.5A/37.5A	50A/37.5A/37.5A	50A/50A/50A
Max. short-circuit current per MPP tracker	45A	45A	55A	55A
Output data (AC)				
Rated AC output power	30000W	40000W	50000W	60000W
Max. AC apparent power	33300VA	44400VA	55500VA	66600VA
Nominal AC voltage (range*)	230V/400V (340-440V)			
AC grid frequency (range*)	50/60 Hz (45-55Hz/55-65 Hz)			
Max. output current	48.3A	64.4A	80.5A	96.6A
Adjustable power factor	0.8leading ...0.8lagging			
THDI	<3%			
AC grid connection type	3W+N+PE			
Efficiency				
Max. efficiency	98.7%	98.7%	98.7%	98.8%
European efficiency	98.4%	98.5%	98.5%	98.5%
MPPT efficiency	99.9%			
Protection devices				
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			
General data				
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, KSC8565				

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