

MAC 50~70KTL3-X LV/MV

- 3 MPPTs
- Smart diagnosis
- High efficiency up to 98.8%
- 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

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Datasheet	MAC 50KTL3-X LV	MAC 50KTL3-X MV	MAC 60KTL3-X LV	MAC 60KTL3-X MV	MAC 70KTL3-X MV
Input Data(DC)					
Max. recommended PV power(for module STC)	75000W	75000W	90000W	90000W	105000W
Max.DC voltage	1100V				
Start voltage	250V				
Nominal voltage	600V	700V	600V	700V	700V
MPPT voltage range	200V-1000V				
No. of MPP trackers	3				
No. of PV strings per MPP tracker	4/3/3	4/3/3	4/4/4	4/4/4	4/4/4
Max. input current per MPP tracker	52A/39A/39A	52A/39A/39A	52A/52A/52A	52A/52A/52A	52A/52A/52A
Max. short-circuit current per MPP tracker	55A				
Output Data(AC)					
Rated AC output power	50000W	50000W	60000W	60000W	70000W
Max. AC apparent power	55500VA	55500VA	66600VA	66600VA	77700VA
Nominal AC voltage (range*)	230V/400V (340-440V)	277V/480V (425-540V)	230V/400V (340-440V)	277V/480V (425-540V)	277V/480V (425-540V)
AC grid frequency (range*)	50/60 Hz (45-55Hz/55-65 Hz)				
Max. output current	80.5A	66.9A	96.6A	80.2A	93.6A
Adjustable power factor	0.8leading ...0.8lagging				
THDI	<3%				
AC grid connection type	3W+N+PE	3W+PE	3W+N+PE	3W+PE	3W+PE
Efficiency					
Max. efficiency	98.8%				
European efficiency	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				
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, IEC60068, IEC61683, IEEET1547

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