

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



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 MV	MAC 60KTL3-X MV	MAC 70KTL3-X MV
Input data (DC)			
Max. recommended PV power (for module STC)	75000W	90000W	105000W
Max.DC voltage		1100V	
Start voltage		250V	
Nominal voltage		700V	
MPPT voltage range		200V-1000V	
No. of MPP trackers		3	
No. of PV strings per MPP tracker	4/3/3	4/4/4	4/4/4
Max. input current per MPP tracker		52A/52A/52A	
Max. short-circuit current per MPP tracker		55A/55A/55A	
Output data (AC)			
Rated AC output power	50000W	60000W	70000W
Max. AC apparent power	55500VA	66600VA	77700VA
Nominal AC voltage (range*)		277V/480V (425-540V)	
AC grid frequency (range*)		50/60 Hz (45-55Hz/55-65 Hz)	
Max. output current	66.9A	80.2A	93.6A
Adjustable power factor		0.8leading ...0.8lagging	
THDi		<3%	
AC grid connection type		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	
AFCI protection		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)	
DC 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, IEEE1547, UL1741			

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