

MAC 10~20K TL3-XL



- The maximum efficiency is up to 98.5%
- Self-consumption monitoring
- Touch key and OLED display
- Type II SPD on DC and AC side

Datasheet	MAC 10KTL3-XL	MAC 12KTL3-XL	MAC 15KTL3-XL	MAC 20KTL3-XL
Input data (DC)				
Max. recommended PV power (for module STC)	15000W	18000W	22500W	30000W
Max. DC voltage	1100V			
Start voltage	250V			
Nominal voltage	360V			
MPP voltage range	200-850V			
No. of MPP trackers	4			
No. of PV strings per MPP tracker	2/2/2/2			
Max. input current per MPP tracker	26A/26A/26A			
Max. short-circuit current per MPP tracker	32A/32A/32A/32A			
Output data (AC)				
AC nominal power	10000W	12000W	15000W	20000W
Max. AC apparent power	11100VA	13300VA	16600VA	22200VA
Nominal AC voltage(range*)	220V/101.6-139.7V			
AC grid frequency(range*)	50/60 Hz,46~54/56-64 Hz			
Max. output current	29.2A	34.9A	43.6A	58.3A
Adjustable power factor	0.8leading...0.8lagging			
THDI	< 3%			
AC grid connection type	3W+N+PE			
Efficiency				
Max. efficiency	98.50%			
European efficiency	98.00%			
MPPT efficiency	99.90%			
Protection devices				
DC reverse polarity protection	Yes			
DC switch	Yes			
DC/AC surge protection	Type II / Type II			
Insulation resistance monitoring	Yes			
AC short-circuit protection	Yes			
Grid monitoring	Yes			
String monitoring	Optional			
Anti-islanding protection	Yes			
Residual-current monitoring unit	Yes			
AFCI protection	Yes			
General data				
Dimensions (W / H / D)	580/435/230mm			
Weight	31kg			
Operating temperature range	- 25 °C ... +60 °C			
Nighttime power consumption	< 1W			
Topology	Transformerless			
Cooling	Smart air cooling			
Protection degree	IP66			
Relative humidity	0-100%			
Altitude	4000m			
DC connection	H4/MC4(Optional)			
AC connection	Connector			
Display	OLED+LED/WIFI+APP			
Interfaces: RS485 / USB/WI-FI/ GPRS/ RF/LAN	Yes/Yes/Optional/Optional/Optional /Optional			
Warranty: 5 years / 10 years	Yes/Optional			
CE, IEC 62116, IEC 61727, IEC62109, AS4777, UL1741, IEEE1547				

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