

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
T O M O R R O W
R R O W



| 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 | 50A/37.5A/37.5A | 50A/50A/50A | 50A/50A/50A |
| Max. short-circuit current per MPP tracker | 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 | | |
| 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, 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.