# MAX 50~80KTL3 LV

- 6 /7MPPTs, fusefree design
- High efficiency up to 99%
- One-click diagnosis
- String monitoring
- AC&DC type II SPD
- AFCI optional




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| Datasheet | MAX 50KTL3 LV | MAX 60KTL3 LV | MAX 70KTL3 LV | MAX 80KTL3 LV |
|---|---|---|---|---|
| **Input data (DC)** | | | | |
| Max. recommended PV power (for module STC) | 75000W | 90000W | 105000W | 120000W |
| Max.DC voltage | 1100V | | | |
| Start voltage | 250V | | | |
| Nominal voltage | 585V | 585V | 600V | 600V |
| MPPT voltage range | 200V-1000V | | | |
| No. of MPP trackers | 6 | 6 | 7 | 7 |
| No. of PV strings per MPP tracker | 2 | | | |
| Max. input current per MPP tracker | 26A | | | |
| Max. short-circuit current per MPP tracker | 32A | | | |
| **Output data (AC)** | | | | |
| AC nominal power | 50000W | 60000W | 70000W | 80000W |
| Max. AC apparent power | 55500VA | 66600VA | 77700VA | 88800VA |
| Nominal AC voltage(range*) | 220V/380V, 230V/400V (340-440V) | | | |
| AC grid frequency(range*) | 50/60 Hz (45-55Hz/55-65 Hz) | | | |
| Max. output current | 80.5A | 96.6A | 112.7A | 128.8A |
| Adjustable power factor | 0.8leading ...0.8lagging | | | |
| THDi | <3% | | | |
| AC grid connection type | 3W+N+PE | | | |
| **Efficiency** | | | | |
| Max.efficiency | 98.8% | 98.8% | 99% | 99% |
| European efficiency | 98.4% | 98.4% | 98.5% | 98.5% |
| MPPT efficiency | 99.9% | | | |
| **Protection devices** | | | | |
| DC reverse polarity protection | Yes | | | |
| DC switch | Yes | | | |
| 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 | | | |
| String monitoring | Yes | | | |
| AFCI protection | Optional | | | |
| **General data** | | | | |
| Dimensions (W / H / D) | 860/600/300mm | | | |
| Weight | 82kg | 82kg | 86kg | 86kg |
| Operating temperature range | –25°C ... +60°C | | | |
| Self-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 | LED/WIFI+APP | | | |
| Interfaces: RS485 / USB /WiFi/ RF/GPRS | Yes/Yes /Optional/Optional/Optional | | | |
| Warranty: 5 years / 10 years | Yes /Optional | | | |
| | CE , VDE0126, Greece, EN50438, EN50549-1, C10/C11, UTE C 15-712, IEC62116, IEC61727, IEC 60068, IEC 61683, CEI0-21, CEI 0-16, N4105, DRRG, G98/G99, G100, NRS 097-2-1, MEA , PEA , KSC8565 | | | |

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

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