

# MAX 50~80KTL3 LV

- 6 /7MPPTs
- Smart diagnosis
- High efficiency up to 99%
- Local WIFI connection
- String monitoring
- AC&DC type II SPD
- AFCI protection
- Data storage up to 25 years
- DC side 2 in 1 connection enabled



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T O M O -  
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Datasheet	MAX 50KTL3 LV	MAX 60KTL3 LV	MAX 70KTL3 LV	MAX 80KTL3 LV
<b>Input Data</b>				
Max.DC power	65000W	78000W	91000W	104000W
Max.DC voltage	1100V	1100V	1100V	1100V
Start voltage	250V	250V	250V	250V
MPPT voltage range	200V-1000V	200V-1000V	200V-1000V	200V-1000V
Nominal voltage	585V	585V	600V	600V
Max. input current per MPPT	25A	25A	25A	25A
Number of MPP trackers / strings per MPP tracker	6/2	6/2	7/2	7/2
<b>Output (AC)</b>				
Rated AC output power	50000W	60000W	70000W	80000W
Max. AC apparent power	55500VA	66600VA	77700VA	88800VA
Max. output current	80.5A	96.6A	112.7A	128.8A
AC nominal voltage	230V/400V	230V/400V	230V/400V	230V/400V
AC grid frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Power factor	0.8leading ...0.8lagging	0.8leading ...0.8lagging	0.8leading ...0.8lagging	0.8leading ...0.8lagging
THDI	<3%	<3%	<3%	<3%
AC grid connection type	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE
<b>Efficiency</b>				
Max. efficiency	98.8%	98.8%	99%	99%
Euro - eta	98.4%	98.4%	98.5%	98.5%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%
<b>Protection Devices</b>				
DC reverse polarity protection	yes	yes	yes	yes
DC switch	yes	yes	yes	yes
DC surge protection	Type II	Type II	Type II	Type II
Ground fault monitoring	yes	yes	yes	yes
Output short circuit protection	yes	yes	yes	yes
AC surge protection	Type II	Type II	Type II	Type II
String fault monitoring	yes	yes	yes	yes
Anti-PID protection	opt	opt	opt	opt
AFCI	opt	opt	opt	opt
<b>General Data</b>				
Dimensions (W / H / D) in mm	860/600/300	860/600/300	860/600/300	860/600/300
Weight	82kg	82kg	86kg	86kg
Operating temperature range	-25°C ... +60°C	-25°C ... +60°C	-25°C ... +60°C	-25°C ... +60°C
Noise emission (typical)	≤60dB(A)	≤60dB(A)	≤60dB(A)	≤60dB(A)
Self-consumption	< 1W	< 1W	< 1W	< 1W
Topology	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Smart cooling	Smart cooling	Smart cooling	Smart cooling
Environmental protection rating	IP65	IP65	IP65	IP65
Altitude	4000m	4000m	4000m	4000m
Relative humidity	0-100%	0-100%	0-100%	0-100%
<b>Features</b>				
Display	LED/WIFI+APP	LED/WIFI+APP	LED/WIFI+APP	LED/WIFI+APP
Interfaces:USB/RS485/GPRS/4G/WIFI/RF	yes / yes / opt/ opt/ opt/ opt	yes / yes / opt/ opt/ opt/ opt	yes / yes / opt/ opt/ opt/ opt	yes / yes / opt/ opt/ opt/ opt
Warranty:5 years / 10 years	yes / opt	yes / opt	yes / opt	yes / opt

CQC, CE, VDE 0126-1-1, G99, UTE C 15-712, VDE-AR-N4105, EN50438, DRRG, CEI 0-16, BDEW, IEC 62116, IEC61727, IEC 60068, IEC 61683, AS 4777, UNE217001,PO12.2