

MID 6~12KTL3-XL

- Max. efficiency 98.5%
- 40% compact and lighter
- Dual MPP trackers
- Supports export control
- Touch key and OLED display
- Type II SPD on AC and DC side



P O W E R
- I N G O
T O M O -
R R O W O



Datasheet	MID 6KTL3-XL	MID 8KTL3-XL	MID 10KTL3-XL	MID 11KTL3-XL	MID 12KTL3-XL
Input Data					
Max. recommended PV power (for module STC)	7800W	10400W	13000W	13000W	15600W
Max. DC voltage	800V	800V	800V	800V	800V
Initial voltage	250V	250V	250V	250V	250V
Nominal voltage	360V	360V	360V	360V	360V
MPPT voltage range	160-800V	160-800V	160-800V	160-800V	160-800V
Full load voltage	280-650V	280-650V	280-650V	280-650V	280-650V
No. of independent MPPT	2	2	2	2	2
No. of PV strings per MPPT	2	2	2	2	2
Max. input current per MPPT	25A	25A	25A	25A	25A
Max. short-circuit current per MPPT	32A	32A	32A	32A	32A
Output (AC)					
AC nominal power	6000W	8000W	10000W	11000W	12000W
Max. AC apparent power	6600VA	8800VA	11100VA	12100VA	13300VA
Nominal AC voltage/range	133V/230V	133V/230V	133V/230V	133V/230V	133V/230V
AC grid frequency; range	50/60 Hz; 47.5~52 Hz/55-65 Hz	50/60 Hz; 47.5~52 Hz/55-65 Hz	50/60 Hz; 47.5~52 Hz/55-65 Hz	50/60 Hz; 47.5~52 Hz/55-65 Hz	50/60 Hz; 47.5~52 Hz/55-65 Hz
Max. output current	16.5A	22.1A	27.8A	30.3A	33.3A
Powerfactor @Nominal power	>0.99	>0.99	>0.99	>0.99	>0.99
Power factor	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging
THDi	<3%	<3%	<3%	<3%	<3%
AC grid connection type	3W+PE/3W+N+PE	3W+PE/3W+N+PE	3W+PE/3W+N+PE	3W+PE/3W+N+PE	3W+PE/3W+N+PE
Efficiency					
Max. efficiency	98.50%	98.50%	98.50%	98.50%	98.50%
Euro - eta	98.10%	98.10%	98.10%	98.10%	98.10%
Protection Devices					
DC reverse polarity protection	yes	yes	yes	yes	yes
DC Switch	yes	yes	yes	yes	yes
DC Surge protection	Typell	Typell	Typell	Typell	Typell
Insulation resistance monitoring	yes	yes	yes	yes	yes
AC surge protection	Typell	Typell	Typell	Typell	Typell
Output short circuit protection	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes
Anti-islanding protection	yes	yes	yes	yes	yes
Residual-current monitoring unit	yes	yes	yes	yes	yes
String fault monitoring	opt	opt	opt	opt	opt
AFCI protection	opt	opt	opt	opt	opt
General Data					
Dimensions (W / H / D) in mm	525/395/222	525/395/222	525/395/222	525/395/222	525/395/222
Weight	23kg	23kg	23kg	23kg	23kg
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emission (typical)	≤40 dB(A)	≤40 dB(A)	≤40 dB(A)	≤40 dB(A)	≤40 dB(A)
Self-Consumption (night)	<1W	<1W	<1W	<1W	<1W
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Cooling	Natural convection	Natural convection	Natural convection	Natural convection	Natural convection
Environmental Protection Rating	IP65	IP65	IP65	IP65	IP65
Altitude	4000m	4000m	4000m	4000m	4000m
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%
DC connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
AC connection	Cable gland+OT terminal	Cable gland+OT terminal	Cable gland+OT terminal	Cable gland+OT terminal	Cable gland+OT terminal
Features					
Display	OLED+LED WIFI+APP	OLED+LED WIFI+APP	OLED+LED WIFI+APP	OLED+LED WIFI+APP	OLED+LED WIFI+APP
Interfaces: USB/RS485/WIFI/GPRS/4G	yes/yes/opt/opt/opt	yes/yes/opt/opt/opt	yes/yes/opt/opt/opt	yes/yes/opt/opt/opt	yes/yes/opt/opt/opt
CE, EN50549, VDE-AR-N4105, CEI 0-21, CEI 0-16, IEC 62116, IEC 61727, G99, AS4777					