

MID 25~40KTL3-X

- The maximum efficiency is up to 98.8%
- 40% compact and lighter
- AFCI function optional
- Self-consumption monitoring
- Touch key and OLED display
- Type II SPD on DC and AC side



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



Datasheet	MID 25KTL3-X	MID 30KTL3-X	MID 33KTL3-X	MID 36KTL3-X	MID 40KTL3-X
Input Data (DC)					
Max. recommended PV power	37500W	45000W	49500W	54000W	60000W
Max. DC voltage	1100V	1100V	1100V	1100V	1100V
Start Voltage	250V	250V	250V	250V	250V
Normal Voltage	600V	600V	600V	600V	600V
MPPT voltage range	200-1000V	200-1000V	200-1000V	200-1000V	200-1000V
Number of MPP trackers	3	3	3	4	4
Max. Strings per MPP tracker	2/2/2	2/2/2	2/2/2	2/2/2/2	2/2/2/2
Max. input current per MPPT	26/26/26	26/26/26	26/26/26	26/26/26/26	26/26/26/26
Max. short circuit current per MPPT	32/32/32	32/32/32	32/32/32	32/32/32/32	32/32/32/32
Output Data (AC)					
Rated AC output power	25000W	30000W	33000W	36000W	40000W
Max. AC apparent power	27700VA	33300VA*	36600VA	39600VA	44000VA
AC nominal voltage; range	220/380V,230V/400V 340-440V	220/380V,230V/400V 340-440V	220/380V,230V/400V 340-440V	220/380V,230V/400V 340-440V	220/380V,230V/400V 340-440V
AC grid frequency; range	50/60 Hz 45~55Hz/55-65 Hz	50/60 Hz; 45~55Hz/55-65 Hz	50/60 Hz; 45~55Hz/55-65 Hz	50/60 Hz; 45~55Hz/55-65 Hz	50/60 Hz; 45~55Hz/55-65 Hz
Max. output current	40A	50.5A	55.5A	60.0A	66.6A
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+N+PE	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE
Efficiency					
Max. efficiency	98.8%	98.8%	98.8%	98.8%	98.8%
Euro. efficiency	98.50%	98.50%	98.50%	98.50%	98.50%
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	yes	yes	yes	yes	yes
Anti-PID protection	opt	opt	opt	opt	opt
String monitoring	opt	opt	opt	opt	opt
AFCI protection	opt	opt	opt	opt	opt
General Data					
Dimensions (W / H / D) in mm	575*420*225	575*420*225	575*420*225	575*420*225	575*420*225
Weight	30kg	30kg	30kg	30kg	30kg
Operating temperature range	-35°C ... +60°C	-35°C ... +60°C	-35°C ... +60°C	-35°C ... +60°C	-35°C ... +60°C
Noise emission (typical)	≤50dB(A)	≤50dB(A)	≤50dB(A)	≤50dB(A)	≤50dB(A)
Altitude	4000m	4000m	4000m	4000m	4000m
Self-Consumption (night)	1W	1W	1W	1W	1W
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Cooling	Smart cooling	Smart cooling	Smart cooling	Smart cooling	Smart cooling
Degree of protection	Ip65	Ip65	Ip65	Ip65	Ip65
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	Waterproof PG terminal + OT connector	Waterproof PG terminal + OT connector	Waterproof PG terminal + OT connector	Waterproof PG terminal + OT connector	Waterproof PG terminal + OT connector
Display and Communication					
Display	OLED+LED	OLED+LED	OLED+LED	OLED+LED	OLED+LED
USB/RS485	yes	yes	yes	yes	yes
WiFi/GPRS/4G/LAN	opt	opt	opt	opt	opt

CE, EN50549, VDE-AR-N4105, VDE 0126-1-1, C10/C11, VFR2014, CEI 0-21, CEI 0-16, IEC 62116, IEC 61727, G99, AS4777, PO12.2, UNE206007

* For Belgium C10/C11 and VDE-AR-N4105, MID 30KTL3-SX max. output power is limit to 30KVA.

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