

MID 15~25KTL3-X

- Max. efficiency 98.7%
- 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
T O M O -
R R O W



Datasheet	MID 15KTL3-X	MID 17KTL3-X	MID 20KTL3-X	MID 22KTL3-X	MID 25KTL3-X
Input Data					
Max. recommended PV power (for module STC)	19500W	22100W	26000W	28600W	32500W
Max. DC voltage	1100V	1100V	1100V	1100V	1100V
Start Voltage	250V	250V	250V	250V	250V
MPPT voltage range	200V-1000V	200V-1000V	200V-1000V	200V-1000V	200V-1000V
Nominal voltage	580V	580V	580V	580V	580V
Number of MPP trackers/ Strings per MPP tracker	2/2	2/2	2/2	2/2	2/3
Max. input current per MPPT	25	25	25	25	25/37.5
Max. short circuit current per MPPT	32	32	32	32	32/48
Output (AC)					
Rated AC output power	15000W	17000W	20000W	22000W	25000W
Max. AC apparent power	16600VA	18800VA	22000VA	24400VA	27700VA
AC nominal voltage; range	230V/400V; 340-440V	230V/400V; 340-440V	230V/400V; 340-440V	230V/400V; 340-440V	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	24.2A	27.4A	31.9A	35.5A	40.2A
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	98.5%	98.6%	98.6%	98.7%	98.7%
Euro - eta	98.1%	98.2%	98.2%	98.3%	98.3%
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
Ground fault monitoring	yes	yes	yes	yes	yes
Output short circuit protection	yes	yes	yes	yes	yes
AC Surge protection	Typell	Typell	Typell	Typell	Typell
String 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 concept	Smart cooling	Smart cooling	Smart cooling	Smart cooling	Smart cooling
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)
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, VDE 0126-1-1, VFR2014, CEI 0-21, CEI 0-16, IEC 62116, IEC 61727, G99, As4777