

MID 11~20KTL3-XH

- Battery ready, up to 20kW
- DC/AC ratio up to 2
- AFCI function ready
- Type II SPD on DC and AC side
- 24h self-consumption monitoring



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Preliminary

Datasheet	MID 11KTL3-XH	MID 12KTL3-XH	MID 13KTL3-XH	MID 15KTL3-XH	MID 17KTL3-XH	MID 20KTL3-XH
Input data (DC)						
Max. recommended PV power (for module STC)	22000W	24000W	26000W	30000W	34000W	40000W
Max. DC voltage	1100V					
Start voltage	200V					
Nominal voltage	600V					
MPPT voltage range	160V-1000V					
No. of MPP trackers	2					
No. of PV strings per MPP tracker	2/2					
Max. input current per MPP tracker	32/32A					
Max. short-circuit current per MPP tracker	40/40A					
Input data (DC battery)						
Compatible battery	APX HV Battery System (5kWh~30kWh)					
Operating voltage range	600 V-980 V					
Max. operating current	25A					
Max. charge power	15000W					
Max. discharge power	11000W	12000W	13000W	15000W	15000W	15000W
Output data (AC)						
AC nominal power	11000W	12000W	13000W	15000W	17000W	20000W
Max. AC apparent power	12100W	13200VA	14300VA	16500VA	18700VA	22000VA
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	18. 3A	20A	21.7A	25A	28. 3A	33. 3A
Adjustable power factor	0.8leading...0.8lagging					
THDi	<3%					
AC grid connection type	3W+N+PE					
Efficiency						
MAX. efficiency	98.75%					
European efficiency	98.5%					
Protection devices						
DC reverse polarity protection	Yes					
DC Switch	Yes					
AC/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 fault monitoring	Yes					
AFCI protection	Yes					
General data						
Dimensions (W / H / D)	580/435/230mm					
Weight	29.5kg					
Operating temperature range	- 25°C ... +60°C					
Nighttime power consumption	<5.5W					
Topology	Transformerless					
Cooling	Smart air cooling					
Protection degree	IP66					
Relative humidity	0~100%					
Altitude	4000m					
DC connection	H4/MC4(Optional)					
AC connection	Cable gland+OT terminal					
Display	OLED + LED/WIFI + APP					
Interfaces: USB/RS485/WIFI/GPRS/LAN/RF	Yes/Yes/Optional/Optional/Optional/Optional					
Warranty: 10 years	Yes					
CE, VDE0126, Greece, EN50549-1, C10/C11, VFR 2019, IEC62116, IEC61727, IEC 60068, IEC 61683, CEI0-21/CEI0-16, N4105, TOR Erzeuger G98/G99, G100, AS4777, UNE217001, UNE206007, PO12.2						