

MID 10 ~ 30KTL3-XH



- Battery ready, up to 29.9kW
- DC/AC ratio up to 2
- AFCI function ready
- Type II SPD on DC and AC side
- 24h self-consumption monitoring

Datasheet	MID 10KTL3-XH	MID 11KTL3-XH	MID 12KTL3-XH	MID 13KTL3-XH	MID 15KTL3-XH	MID 17KTL3-XH	MID 20KTL3-XH	MID 25KTL3-XH	MID 30KTL3-XH
Input data（DC）									
Max.recommended PV power(for module STC)	19.98kW	22kW	24KW	26kW	30KW	34kW	40KW	50KW	60KW
Max.DC voltage	1100V								
Start voltage	200V								
Nominal voltage	600V								
MPP voltage range	160-1000V								
No.of MPPT trackers	3								
No.of PV strings per MPPT tracker	2								
Max.input current per MPPT tracker	32A								
Max.short-circuit current per MPPT tracker	48A								
Input data（DC Battery）									
Compatible battery	APX P5.0-S2~30.0P-S2(5Kwh-60Kwh)								
Operating voltage range	600 V ~ 980 V								
Max.operating current	25A/25A								
Max.charge power	15000W or 30000W*2								
Max.discharge power	9999W	11000W	12000W	13000W	15000W	17000W	20000W	25000W	29900W
Output data(AC)									
AC nominal power	9999W	11000W	12000W	13000W	15000W	17000W	20000W	25000W	29900W
Max.AC apparent power	9999VA	11000VA	12000VA	13000VA	15000VA	17000VA	20000VA	25000VA	29900VA
Nominal AC voltage(range*)	220V/380V/230V/400V								
AC grid frequency(range*)	50/60 Hz(45~55Hz/55-65Hz)								
Max.output current	14.5A	15.9A	17.4A	18.8A	21.7A	24.6A	29A	36.2A	43.4A
Adjustable power factor	0.8leading ...0.8lagging								
THDi	<3%								
AC grid connection type	3W+N+PE								
Output data（Backup*）									
Max. apparent power	9999VA	11000VA	12000VA	13000VA	15000VA	17000VA	20000VA	25000VA	29900VA
Nominal AC voltage	220V/380V/230V/400V								
Maximum output current	14.5A	15.9A	17.4A	18.8A	21.7A	24.6A	29A	36.2A	43.4A
Efficiency									
MAX.efficiency	98.00%								
MPPT efficiency	99.90%								
Protection devices									
DC reverse polarity protection	Yes								
DC Switch	Yes								
Pollution degree	Outside:PD3;Inside:PD2								
Class of equipment	Class I								
Overvoltage category Mains	OVCIII								
Overvoltage category DC	OVC II								
Insulation resistance monitoring	Yes								
AC short-circuit protection	Yes								
Ground fault monitorring	Yes								
Grid monitoring	Yes								
Anti-islanding protection	Active Frequency Shift								
Residual-current monitoring unit	Yes								
String fault monitoring	Yes								
AFCI protection*4	Yes								
General data									
Dimensions(W/h/d)	579/433/217.5mm								
Weight	29.5kg	29.5kg	29.5kg	29.5kg	29.5kg	29.5kg	29.5kg	30kg	30kg
Operating temperature range	-25°C ... +60°C								
Nighttime power consumption	<5.5W								
Topology	Transformerless								
Cooling	Smart air cooling								
Protection degree	IP66								
Altitude	4000m								
DC connection	H4/MC4(Optional)								
AC connection	cable gland+OT terminal								
Disolay	OLED+LED+WIFI+APP								
Interfaces:USB/RA485/WIFI/4G/LA N/RF	Yes/Yes/Optional/Optional/Optional/Optional								
Warranty 10years	Yes								
CE,VDE 0126,Greece,EN 50549-1,C10/C11,VFR 2019,IEC 62116,IEC 61727,IEC 60068,IEC61683,CEI 0-21,N 4105,TOR Erzeuger,G98/G99,G100,AS 4777,UNE 217001,UNE 206007,PO12.2									

* 1 Inverter with 2 battery ports, each with max. 25A.

* 2 For single battery port connected, the maximum power is 15kW. When two ports are used, the power can reach 30kW.

* 3 The backup function is ready by using the SYN 100-XH-30 device.

* 4 AFCI function need to be activated after installation.

* 5 Made in China