

# MID 11~30KTL3-XH

- Battery ready, up to 30kW
- DC/AC ratio up to 2
- AFCI function ready
- Type II SPD on DC and AC side
- 24h self-consumption monitoring



**GROWATT**

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P O W E R  
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R R O W O

Preliminary

Datasheet	MID 11KTL3-XH	MID 12KTL3-XH	MID 13KTL3-XH	MID 15KTL3-XH	MID 17KTL3-XH	MID 20KTL3-XH	MID 25KTL3-XH	MID 30KTL3-XH
<b>Input data (DC)</b>								
Max. recommended PV power (for module STC)	22000W	24000W	26000W	30000W	34000W	40000W	50000W	60000W
Max. DC voltage	1100V							
Start voltage	200V							
Nominal voltage	600V							
MPPT voltage range	160V-1000V							
No. of MPP trackers	2	2	2	2	2	2	3	3
No. of PV strings per MPP tracker	2							
Max. input current per MPP tracker	32A							
Max. short-circuit current per MPP tracker	40A							
<b>Input data (DC battery)</b>								
Compatible battery	APX HV Battery System (5kWh~60kWh)							
Operating voltage range	600 V-980 V							
Max. operating current	25A/25A* <sup>1</sup>							
Max. charge power	15000W or 30000W* <sup>2</sup>							
Max. discharge power	11000W	12000W	13000W	15000W	17000W	20000W	25000W	30000W
<b>Output data (AC)</b>								
AC nominal power	11000W	12000W	13000W	15000W	17000W	20000W	25000W	30000W
Max. AC apparent power	12100VA	13200VA	14300VA	16500VA	18700VA	22000VA	27500VA	30000VA
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	41.6A	45.5A
Adjustable power factor	0.8leading...0.8lagging							
THDI	<3%							
AC grid connection type	3W+N+PE							
<b>Efficiency</b>								
MAX. efficiency	98.75%						98.80%	
European efficiency	98.5%							
<b>Protection devices</b>								
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* <sup>3</sup>	Optional							
<b>General data</b>								
Dimensions (W / H / D)	580/435/230mm							
Weight	31kg							
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: 5years / 10 years	Yes/Optional							
CE, VDE0126, Greece, EN50549-1, C10/C11, VFR 2019, IEC62116, IEC61727, IEC 60068, IEC 61683, CEI0-21, N4105, TOR Erzeuger G98/G99, G100, AS4777, UNE217001, UNE206007, 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 AFCI function need to be activated after installation.