GROWATT

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



POWER-ING TOMO-RROW

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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
Input data (DC)								
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							
Input data (DC battery)								
Compatible battery	APX 5.0-30.0P-S2(5kWh-60kWh), APX 5.0-30.0M-S3(5kWh-60KWh)							
Operating voltage range	600V-980V							
Max.operating current	25A/25A*1							
Max.charge power	15000W or 30000W*2							
Max.discharge power	11000W	12000W	13000W	15000W	17000W	20000W	25000W	30000W
Output data (AC)								
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							
Output data (Backup*3)								
Max. apparent power	11kVA	12kVA	13kVA	15kVA	17kVA	20kVA	25kVA	30kVA
Maximum output current	16.7A	18.2A	19.7A	22.7A	25.8A	30.3A	37.9A	45.5A
Nominal AC voltage	220V/380V, 230V/400V							
Efficiency								
Max. efficiency	98.75%						98.80%	
European efficiency	98.5%							
MPPT efficiency	99.9%							
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*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	30kg	30kg
Operating temperature range	-25℃ ... +60℃							
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							
Monitor	ShineWilan-X2 (for single device), ShineMaster4G-X or SEM-XA-R (for parallel devices)							
Warranty: 5 years / 10 years	Yes/Optional							
CE, VDE 0126, Greece, EN 50549-1, C10/C11, VFR 2019, IEC 62116, IEC 61727, IEC 60068, IEC 61683, CEI 0-21, N4105, 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.
* 4 AFCI function need to be activated after installation.
* MID-XH supports three-phase unbalanced output only when work with an APX HV Battery or APX HV Battery 2.0.

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