

INVERTERS

MID 11-30KTL3-XH

Hybrid inverter · Three-phase · 11 – 30 kW · 8 models


11 – 30 kW

RATED POWER

Three-phase

PHASE

2

MPPT TRACKERS

98.75 – 98.8 %

MAX. EFFICIENCY

Parameter	Unit	MID 11KTL3-XH	MID 12KTL3-XH	MID 13KTL3-XH	MID 15KTL3-XH	MID 17KTL3-XH	MID 20KTL3-XH	MID 25KTL3-XH	MID 30KTL3-XH
PV input									
Max. PV input power	W	22000	24000	26000	30000	34000	40000	50000	60000
Max. PV input voltage	V	1100							
Start-up voltage	V	200							
Rated PV input voltage	V	600							
MPPT voltage range	V	160 – 1000							
Number of MPPT trackers		2						3	
PV strings per MPPT		2							
Max. input current per MPPT	A	32							
Max. short-circuit current per MPPT	A	40							
Max. DC/AC ratio		2							
AC output									
Rated output power	W	11000	12000	13000	15000	17000	20000	25000	30000
Max. apparent power	VA	12100	13200	14300	16500	18700	22000	27500	30000
Rated AC voltage	V	400							
Rated AC voltage options	V	220/380; 230/400							
AC voltage range	V	340 – 440							
Phase		Three-phase							
Rated AC frequency	Hz	50/60							
AC grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 55-65							
Max. AC output current	A	18.3	20	21.7	25	28.3	33.3	41.6	45.5
Power factor		0.8 leading to 0.8 lagging (adjustable)							
Total harmonic distortion (THDi)	%	<3							

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AC grid connection type		3W + N + PE							
Backup max. apparent power	VA	11000	12000	13000	15000	17000	20000	25000	30000
Backup max. output current	A	16.7	18.2	19.7	22.7	25.8	30.3	37.9	45.5
Backup nominal AC voltage	V	220/380; 230/400							
Backup function		Available with an external backup unit (SYN 100-XH-30)							
Battery									
Compatible battery		APX 5.0-30.0P-S2 (5-60 kWh); APX 5.0-30.0M-S3 (5-60 kWh)							
Battery voltage range	V	600 – 980							
Number of battery ports		2							
Max. operating current per battery port	A	25							
Max. charge power	W	30000							
Max. charge power, single battery port	W	15000							
Max. discharge power	W	11000	12000	13000	15000	17000	20000	25000	30000
Efficiency									
Max. efficiency	%	98.75						98.8	
European efficiency	%	98.5							
MPPT efficiency	%	99.9							
Protection									
Protection functions		DC reverse polarity protection; DC switch; AC/DC surge protection (Type II / Type II); Insulation resistance monitoring; AC short-circuit protection; Ground fault monitoring; Grid monitoring; Anti-islanding protection; Residual-current monitoring unit; String fault monitoring; AFCI protection (function needs to be activated after installation)							
General data									
Dimensions (W x H x D)	mm	579 × 433 × 217.5							
Weight	kg	29.5						30	
Operating temperature range	°C	–25 – 60							
Night-time power consumption	W	<5.5							
Topology		Transformerless							
Cooling		Smart air cooling							
Ingress protection (IP rating)		IP66							
Relative humidity	%	0 – 100							
Max. operating altitude	m	4000							
DC connection		H4 / MC4 (optional)							
AC connection		Cable gland + OT terminal							
Warranty	years	5 – 10							
Communication									
Display		OLED + LED / Wi-Fi + app							

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Certifications									
Certifications and standards	CE								
Grid codes	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								

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.
XUSION is a brand of Hunan New Lithium Aviation Technology Co., Ltd.

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