

INVERTERS

MID 30-50KTL3-X2

String inverter · Three-phase · 33 – 50 kW · 4 models


33 – 50 kW

RATED POWER

Three-phase

PHASE

3

MPPT TRACKERS

98.5 – 98.8 %

MAX. EFFICIENCY

Parameter	Unit	MID 33KTL3-X2	MID 36KTL3-X2	MID 40KTL3-X2	MID 50KTL3-X2
PV input					
Max. PV input power	W	49500	54000	60000	75000
Max. PV input voltage	V	1100			
Rated PV input voltage	V	600			
MPPT voltage range	V	200 – 1000			
Start-up voltage	V	200			
Max. input current per MPPT	A	32			
Max. short-circuit current per MPPT	A	40			
Number of MPPT trackers		3		4	
PV strings per MPPT		2			
Max. input current per string	A	16			
AC output					
Rated output power	W	33000	36000	40000	50000
Max. apparent power	VA	36600	40000	44400	55500
Rated AC voltage	V	400			
Rated AC voltage options	V	220/380; 230/400			
AC voltage range	V	340 – 440			
Phase		Three-phase			
Grid connection type		3W+N+PE			
Rated AC frequency	Hz	50/60			
Grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 55-65			
Max. AC output current	A	55.5	60.6	67.3	84.1
Power factor		0.8 leading to 0.8 lagging (adjustable)			
Total harmonic distortion (THDi)	%	<3			

Parameter	Unit	MID 33KTL3-X2	MID 36KTL3-X2	MID 40KTL3-X2	MID 50KTL3-X2
Efficiency					
Max. efficiency	%	98.5	98.8		
European efficiency	%	98.3	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 monitoring; AFCI protection (to be activated after installation)			
General data					
Dimensions (W x H x D)	mm	580 × 435 × 230			
Weight	kg	34		38	
Operating temperature range	°C	−25 – 60			
Night-time power consumption	W	<1			
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			
Warranty options		5 years standard; 10 years optional			
Communication					
Display		OLED + LED / Wi-Fi + App			
Monitoring		Optional external monitoring modules: Wi-Fi/LAN module (single device); 4G data logger or other module (parallel devices)			
Smart diagnostics		I/V curve scanning; Intelligent string monitoring			
Certifications					
Certifications and standards		CE; IEC 62116; IEC 61727; IEC 62910; IEC 61683; IEC 60068; BIS; CQC; UKCA; INMETRO; KS; DRRG			
Grid codes		EN 50549-1; TOR Erzeuger Typ A; CEI 0-21; CEI 0-16; VDE-AR-N 4105; VDE 0126; C10/C11; UNE 217001; UNE 217002; NTS Type A; Poland; Denmark			

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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