

INVERTERS

MAC 50-70KTL3-X LV-MV

String inverter · Three-phase · 50 – 70 kW · 5 models


50 – 70 kW

RATED POWER

Three-phase

PHASE

3

MPPT TRACKERS

98.8 %

MAX. EFFICIENCY

Parameter	Unit	MAC 50KTL3-X LV	MAC 50KTL3-X MV	MAC 60KTL3-X LV	MAC 60KTL3-X MV	MAC 70KTL3-X MV
PV input						
Max. PV input power	W	75000		90000		105000
Max. PV input voltage	V	1100				
Start-up voltage	V	250				
Rated PV input voltage	V	600	700	600	700	
MPPT voltage range	V	200 – 1000				
Number of MPPT trackers		3				
PV strings per MPPT		4				
PV strings per MPPT tracker (tracker 1 / 2 / 3)		4 / 3 / 3		4 / 4 / 4		
Max. input current per MPPT	A	52				
Max. input current per MPPT tracker (tracker 1 / 2 / 3)	A	52 / 39 / 39		52 / 52 / 52		
Max. short-circuit current per MPPT	A	55				
AC output						
Rated output power	W	50000		60000		70000
Max. apparent power	VA	55500		66600		77700
Rated AC voltage	V	400	480	400	480	
Nominal AC voltage (range)	V	230/400 (340-440)	277/480 (425-540)	230/400 (340-440)	277/480 (425-540)	
Phase		Three-phase				
AC grid connection type		3W + N + PE	3W + PE	3W + N + PE	3W + PE	
Rated AC frequency	Hz	50/60				
AC grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 55-65				
Max. AC output current	A	80.5	66.9	96.6	80.2	93.6

Parameter	Unit	MAC 50KTL3-X LV	MAC 50KTL3-X MV	MAC 60KTL3-X LV	MAC 60KTL3-X MV	MAC 70KTL3-X MV
Power factor		0.8 leading to 0.8 lagging (adjustable)				
Total harmonic distortion (THDi)	%	<3				
Efficiency						
Max. efficiency	%	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				
General data						
Dimensions (W x H x D)	mm	680 × 508 × 281				
Weight	kg	52				
Operating temperature range	°C	−25 – 60				
Night-time power consumption	W	<1				
Topology		Transformerless				
Cooling		Smart air cooling				
Ingress protection (IP rating)		IP65				
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				
Communication interfaces		RS485; USB; Wi-Fi (optional); GPRS (optional); RF (optional)				
Certifications						
Certifications and standards		CE				
Grid codes		IEC 62116; IEC 61727; IEC 60068; IEC 61683; IEEE 1547				

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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