

INVERTERS

MOD 3-15KTL3-HU

Hybrid inverter · Three-phase · 3 – 15 kW · 12 models


3 – 15 kW

RATED POWER

Three-phase

PHASE

2

MPPT TRACKERS

98.3 – 98.6 %

MAX. EFFICIENCY

Parameter	Unit	Common to all models
PV input		
Max. PV input voltage	V	1000
Start-up voltage	V	160
Rated PV input voltage	V	600
MPPT voltage range	V	140 – 1000
Full-load voltage range	V	400 – 850
PV strings per MPPT		1
Max. input current per MPPT	A	20
Max. short-circuit current per MPPT	A	25
AC output		
Rated AC voltage	V	400
Nominal AC voltage options	V	220/380 or 230/400
Phase		Three-phase
Rated AC frequency	Hz	50/60
AC grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 55-65
Power factor		0.8 leading to 0.8 lagging (adjustable)
Total harmonic distortion (THDi)	%	<3
AC grid connection type		3W+N+PE / 3W+PE
Backup nominal AC voltage	V	220/380 or 230/400
Backup AC grid frequency	Hz	50 / 60
Backup output THDv	%	<3

Parameter	Unit	Common to all models
Battery		
Battery voltage range	V	600 – 980
Compatible battery capacity	kWh	5 – 30
Max. charge current	A	25
Max. discharge current	A	25
Protection		
Protection functions		DC reverse-polarity protection; DC switch; AC/DC surge protection (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
General data		
Dimensions (W x H x D)	mm	468 × 408 × 202
Ingress protection (IP rating)		IP66
Operating temperature range	°C	–25 – 60
Relative humidity	%	0 – 100
Max. operating altitude	m	4000
Noise level	dB	≤29
Night-time power consumption	W	<20
Topology		Transformerless
Cooling		Natural convection
DC connection		H4/MC4 (optional)
AC connection		Waterproof PG connector + OT terminal
Warranty	years	10
Communication		
Display		OLED + LED
Communication interfaces		RS485; CAN; USB
Monitoring		Wi-Fi + mobile app
Certifications		
Certifications and standards		CE; N4105; EN 50549-1; C10/C11; CEI 0-21; G98; G99; G100; AS 4777

Parameter	Unit	MOD 3000TL3-HU	MOD 4000TL3-HU	MOD 5000TL3-HU	MOD 6000TL3-HU	MOD 7000TL3-HU	MOD 8000TL3-HU
PV input							
Max. PV input power	W	6000	8000	10000	12000	14000	16000
Number of MPPT trackers		2					

Parameter	Unit	MOD 3000TL3-HU	MOD 4000TL3-HU	MOD 5000TL3-HU	MOD 6000TL3-HU	MOD 7000TL3-HU	MOD 8000TL3-HU
AC output							
Rated output power	W	3000	4000	5000	6000	7000	8000
Max. apparent power	VA	3300	4400	5500	6600	7700	8800
Max. AC output current	A	5	6.7	8.3	10	11.7	13.3
Backup output power	W	3000	4000	5000	6000	7000	8000
Backup peak output apparent power (10 min)	kVA	3.6	4.8	6	7.2	8.4	9.6
Backup peak output apparent power, single phase	kVA	1	1.33	1.67	2	2.3	2.67
Backup max. output current	A	5.5	7.3	9.1	10.9	12.7	14.5
Battery							
Max. charge power	W	9000	12000	15000			
Max. discharge power	W	3000	4000	5000	6000	7000	8000
Efficiency							
Max. efficiency	%	98.3				98.6	
European efficiency	%	97.8				98.1	
General data							
Weight	kg	19					

Parameter	Unit	MOD 9000TL3-HU	MOD 10KTL3-HU	MOD 11KTL3-HU	MOD 12KTL3-HU	MOD 13KTL3-HU	MOD 15KTL3-HU
PV input							
Max. PV input power	W	18000	20000	22000	24000	26000	30000
Number of MPPT trackers		2	3				
AC output							
Rated output power	W	9000	10000	11000	12000	13000	15000
Max. apparent power	VA	9900	11000	12100	13200	14300	16500
Max. AC output current	A	15	16.7	18.3	20	21.7	25
Backup output power	W	9000	10000	11000	12000	13000	15000
Backup peak output apparent power (10 min)	kVA	10.8	12	13.2	14.4	15.6	18
Backup peak output apparent power, single phase	kVA	3	3.33	3.67	4	3.25	5
Backup max. output current	A	16.4	18.2	20	21.8	23.6	27.3
Battery							
Max. charge power	W	15000					
Max. discharge power	W	9000	10000	11000	12000	13000	15000
Efficiency							
Max. efficiency	%	98.6					
European efficiency	%	98.1					

Parameter	Unit	MOD 9000TL3-HU	MOD 10KTL3-HU	MOD 11KTL3-HU	MOD 12KTL3-HU	MOD 13KTL3-HU	MOD 15KTL3-HU
General data							
Weight	kg	19			20		

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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