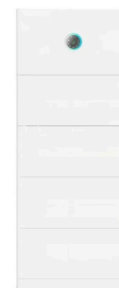


HOME ENERGY STORAGE

MINA All-In-One ESS

High-voltage battery · 5 kWh · 8 models


5 kWh

ENERGY CAPACITY

350 V

NOMINAL VOLTAGE

10000 cycles

CYCLE LIFE

3 – 10 kW

RATED POWER

Parameter	Unit	MINA 3000TL-HU	MINA 3600TL-HU	MINA 4200TL-HU	MINA 4600TL-HU	MINA 5000TL-HU	MINA 6000TL-HU	MINA 8000TL-HU	MINA 10000TL-HU
PV input									
Max. PV input power	W	6000	7200	8400	9200	10000	12000	16000	20000
Max. PV input voltage	V	600							
Rated PV input voltage	V	380							
MPPT voltage range	V	40 – 560							
Start-up voltage	V	50							
Max. input current per MPPT	A	18							
Max. short-circuit current per MPPT	A	25							
Number of MPPT trackers		3							
PV strings per MPPT		1							
AC output									
Rated output power	W	3000	3600	4200	4600	5000	6000	8000	10000
Rated AC apparent power (grid port)	VA	3000	3600	4200	4600	5000	6000	8000	10000
Rated AC voltage	V	230							
Rated AC frequency	Hz	50/60							
Max. AC output current	A	13.6	16	19	20.9	22.7	27.2	38.3	45.5
Power factor		0.8 leading to 0.8 lagging							
Total harmonic distortion (THDi)	%	<3							
Phase		Single-phase							
Backup port rated output apparent power	VA	3000	3600	4200	4600	5000	6000	8000	10000
Peak (surge) power	W	4500	5400	6300	6900	7500	9000	12000	15000
Backup port rated output current	A	13.6	16	19	20.9	22.7	27.2	38.3	45.5
Bypass current	A	63							

Parameter	Unit	MINA 3000TL-HU	MINA 3600TL-HU	MINA 4200TL-HU	MINA 4600TL-HU	MINA 5000TL-HU	MINA 6000TL-HU	MINA 8000TL-HU	MINA 10000TL-HU
Backup switch time	ms	<10							
Battery									
Nominal energy capacity	Wh	5000 – 30000							
Nominal voltage	V	350 – 550							
Max. charge power	W	3000	3600	4200	4600	5000	6000	8000	10000
Max. discharge power	W	3000	3600	4200	4600	5000	6000	8000	10000
Depth of discharge (DoD)	%	100							
Cycle life	cycles	10000							
Battery module		APX 5.0P-B3							
Battery module dimensions (W x H x D)	mm	590 × 265 × 255							
Battery module weight	kg	45							
DC charger max. charging / discharging power	W	25000							
Efficiency									
Max. efficiency	%	97.5							
European efficiency	%	99.5							
Protection									
Protection functions		DC reverse polarity protection; DC switch; AFCI protection; Insulation resistance monitoring; Ground fault monitoring; Grid monitoring; Anti-islanding protection; Residual-current monitoring; DC/AC surge protection							
General data									
Weight	kg	70.5 – 295.5							
Ingress protection (IP rating)		IP66							
Installation		Floor or wall mount							
Operating temperature range	°C	–20 – 50							
Relative humidity	%	0 – 100							
Max. operating altitude	m	4000							
Cooling		Natural cooling							
Night-time power consumption	W	5							
Warranty	years	10							

Parameter	Unit	MINA 3000TL-HU	MINA 3600TL-HU	MINA 4200TL-HU	MINA 4600TL-HU	MINA 5000TL-HU	MINA 6000TL-HU	MINA 8000TL-HU	MINA 10000TL-HU
System									
System models (1 to 6 battery modules)		MINA 3-10kTL-HU-1; MINA 3-10kTL-HU-2; MINA 3-10kTL-HU-3; MINA 3-10kTL-HU-4; MINA 3-10kTL-HU-5; MINA 3-10kTL-HU-6							
Number of inverter modules		1							
Number of battery modules		1 – 6							
Energy capacity by number of battery modules (1 to 6)	kWh	5; 10; 15; 20; 25; 30							
System weight by number of battery modules (1 to 6, incl. base)	kg	70.5; 115.5; 160.5; 205.5; 250.5; 295.5							
System dimensions (W x H x D) by number of battery modules (1 to 6, incl. base)	mm	590 x 667 x 255; 590 x 932 x 255; 590 x 1197 x 255; 590 x 1462 x 255; 590 x 1727 x 255; 590 x 1992 x 255							
Communication									
Communication interfaces		RS485; USB; App							

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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