MINA All-in-one ESS EU (Wide Version)

- 3 MPPTs with Max 3.0 DC/AC ratio for higher yield
- Battery Optimizer — mix old & new with ease
- 63A for reliable whole-home backup
- VPP-ready for intelligent energy management



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System Model	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	MINA 3-10kTL-HU-7
System schematic							
Number of inverter module	1						
Number of battery module	1	2	3	4	5	6	7
Energy capacity	7kWh	14kWh	21kWh	28kWh	35kWh	42kWh	49kWh
System weight*[1]	84.8kg	141.1kg	197.4kg	253.7kg	310kg	366.3kg	422.6kg
System dimension (W/D/H)*[1]	740/255/697	740/255/962	740/255/1227	740/255/1492	740/255/1757	740/255/2022	740/255/2287

Inverter Model	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 Side								
Max recommended PV power	9000W	10800W	12600W	13800W	15000W	18000W	16000W	20000W
Max.DC voltage	600V							
Start voltage	50V							
Nominal voltage	380V							
MPP work voltage range	40V-560V							
No.of MPP tracker/String per tracker	3/1							
Max input current per MPP tracker	20A							
Max.short-circuit current per MPP tracker	25A							
AC Side (Grid port)								
AC norminal power	3000W	3600W	4200W	4600W	5000W	6000W	8000W	10000W
Rated AC apparent power	3000VA	3600VA	4200VA	4600VA	5000VA	6000VA	8000VA	10000VA
Nominal AC voltage/range	230V							
Nominal frequency/range	50/60 Hz (45-55Hz/55-65Hz)							
Max.input/output current	63A/13A	63A/15.7A	63A/18.3A	63A/20A	63A/21.7A	63A/26A	63A/34.8A	63A/43.5A
Adjustable power factor	0.8leading...0.8lagging							
THDi	< 3%							
AC connection	Single phase (L/N/PE)							
AC Side (Backup port)								
Rated output apparent power	3000VA	3600VA	4200VA	4600VA	5000VA	6000VA	8000VA	10000VA
Max.output power	1.5Pn @15s							
Rated output current	13A	15.7A	18.3A	20A	21.7A	26A	34.8A	43.5A
Bypass current	63A							
Switch time	<10ms							
Efficiency								
Max.efficiency	97.5%							
European efficiency	96.50%				96.80%			
Battery Side								
Battery model	APX 7.0P-B3							
Battery dimension (W/D/H)	740/255/265							
Battery weight	56.3kg							
Normal voltage	350-550V							
Energy capacity	7-49kWh							
Max.charge/discharge power*[2]	10kW/3.2kW	10kW/3.8kW	10kW/4.4kW	10kW/4.8kW	10kW/5.3kW	10kW/6.3kW	10kW/8.4kW	10kW/10kW
DoD	100%*[3]							
Cycle life	10000*[4]							
Protection								
Safety protection feature	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								
Operating temperature range	-20~55℃							
Altitude	4000m (derating > 2000m)							
Nighttime power consumption	5W							
Cooling	Natural cooling							
Relative humidity	0~100%							
Protection degree	IP66							
Installation method	Floor/Wall mount							
Interfaces	RS485, USB, APP							
Warranty	10years							
Country of manufacturing	Made in China							

*1 System weight & dimensions include the base.

*2 Battery charge/discharge power is limited by both the number of battery modules and the power of inverter.

*3 Test conditions: 100% depth of discharge, 0.2C charging&discharging at 25±2℃, at the beginning of life.

*4 Provided by the cell manufacturer. Test conditions: 25℃±2℃, 0.25C charge and discharge rate, EOL: 60%.

*The inverter module of the MINA (Wide Version) cannot be paired with the 5 kWh APX battery module.

*Specifications are preliminary and may change without notice.

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