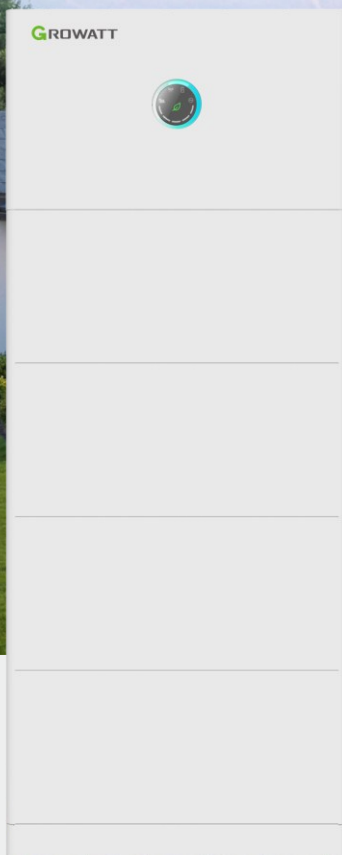


MINA All-in-one ESS EU

- 3 MPPTs with 2.0 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
- Two-way DC Charger V2G — Coming soon



P O W E R
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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	
System schematic												
Number of inverter module	1											
Number of battery module	1		2		3		4		5		6	
Energy capacity	5kWh		10kWh		15kWh		20kWh		25kWh		30kWh	
System weight* ¹	70.5kg		115.5kg		160.5kg		205.5kg		250.5kg		295.5kg	
System dimension (W/D/H)* ¹	590/255/667		590/255/932		590/255/1197		590/255/1462		590/255/1727		590/255/1992	
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	6000W	7200W	8400W	9200W	10000W	12000W	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	18A											
Maxshort-circuit current per MPP tracker	25A											
AC Side (Grid port)												
AC nominal 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)											
Maxinput/output current	63A/13.6A	63A/16A	63A/19A	63A/20.9A	63A/22.7A	63A/27.2A	63A/38.3A	63A/45.5A				
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 @10s											
Rated output current	13.6A	16A	19A	20.9A	22.7A	27.2A	38.3A	45.5A				
Bypass current	63A											
Switch time	<10ms											
Efficiency												
Max.efficiency	97.5%											
European efficiency	99.50%											
Battery Side												
Battery model	APX 5.0P-B3											
Battery dimension (W/D/H)	590/255/265											
Battery weight	45kg											
Normal voltage	350-550V											
Energy capacity	5-30kWh											
Max.charge/discharge power* ²	3000W	3600W	4200W	4600W	5000W	6000W	8000W	10000W				
DoD	100%* ³											
DC Charger												
Max. charging/discharging power	25kW											
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	-20~50℃											
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	10 years											
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.

* Specifications are preliminary and may change without notice.