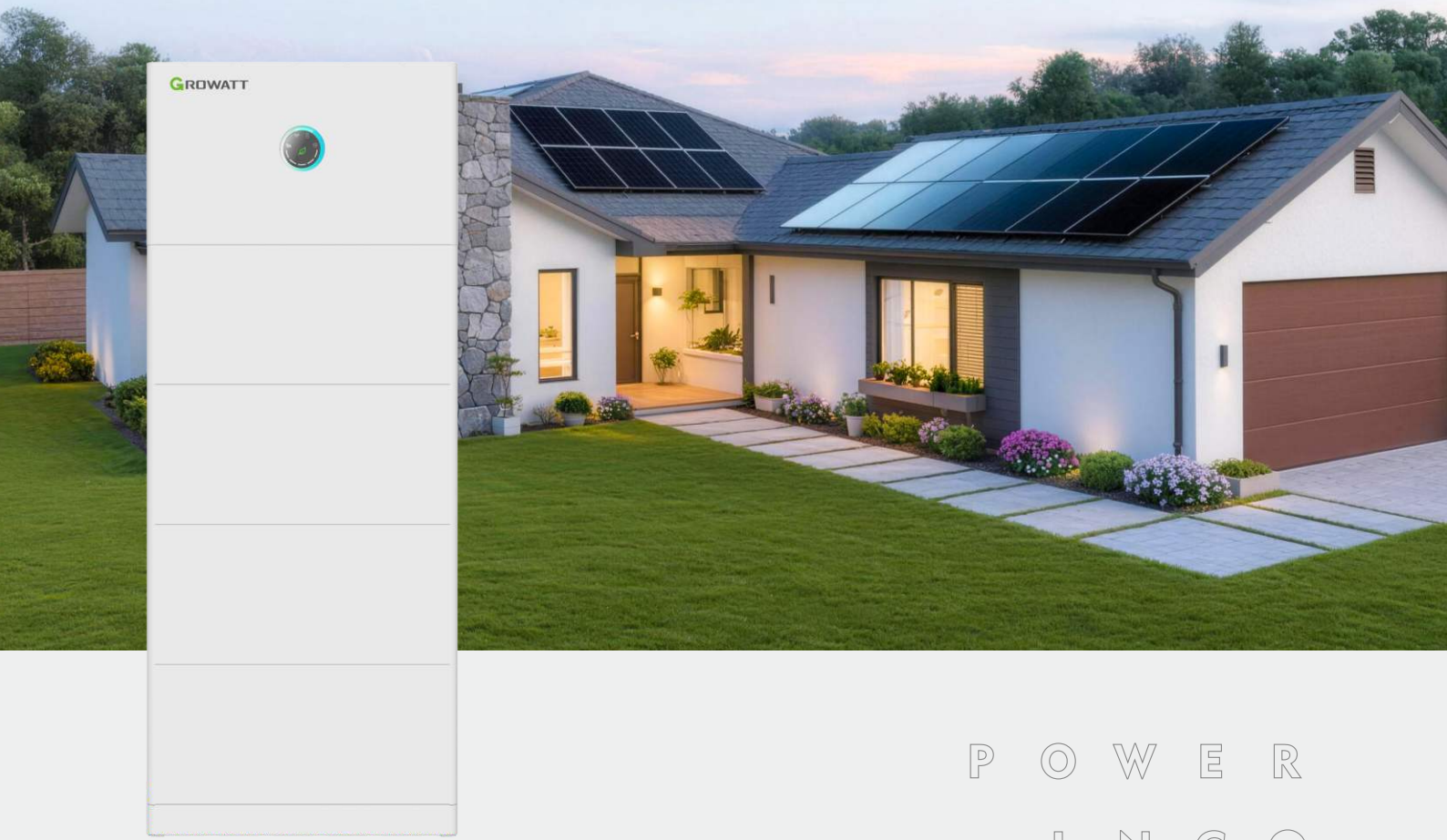
Preliminary

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



POWER-ING TOMO-RROW

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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							
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/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]							
Cycle life	10000*[4]							
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.
*4 Provided by the battery manufacturer. Test conditions: 25℃±2℃, 0.25C charge and discharge rate, EOL: 60%.
* Specifications are preliminary and may change without notice.

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