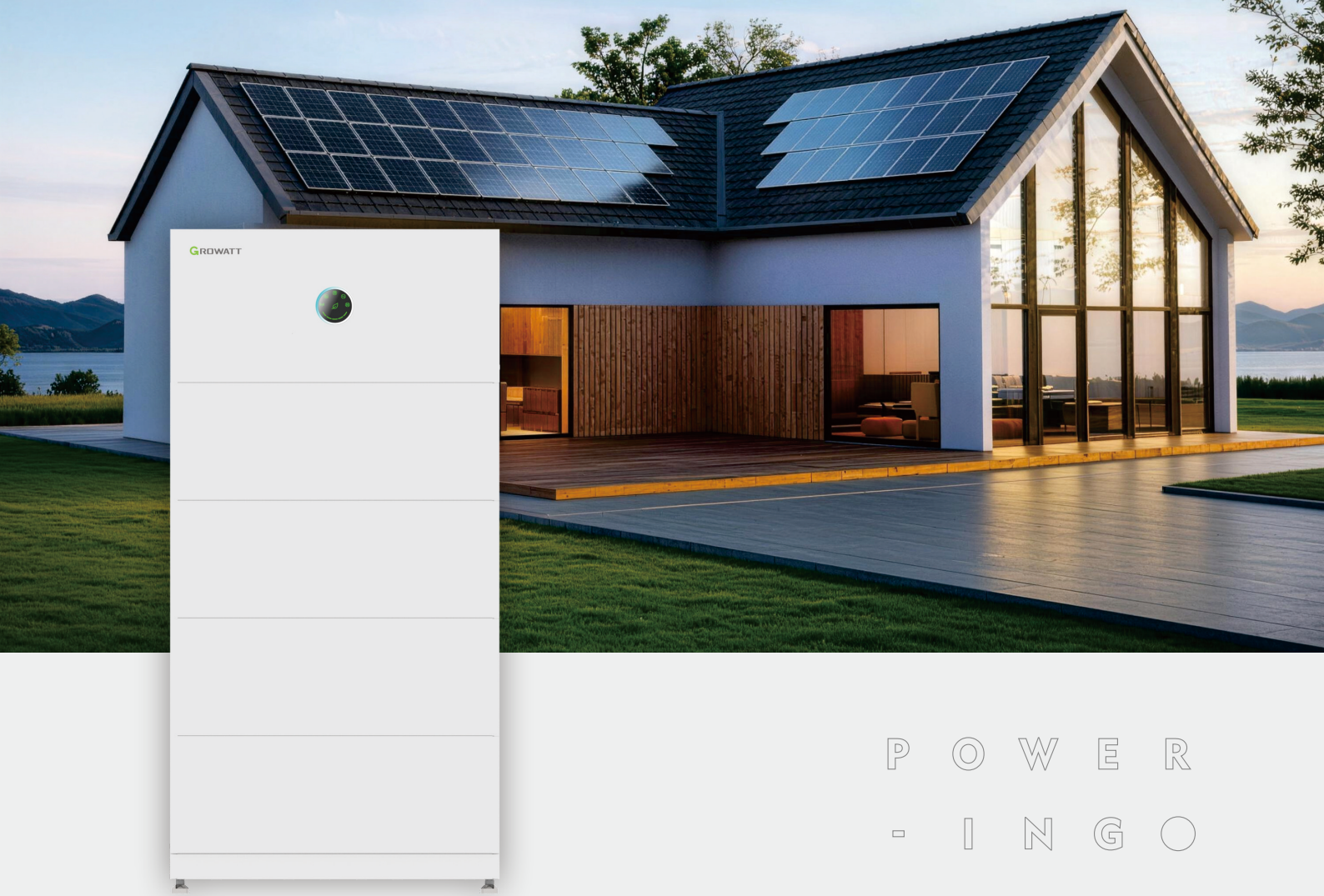
MINA All-In-One Solution (AU)

- 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

GROWATT

en.growatt.com

System model	MINA 5-10kTL-HU-1	MINA 5-10kTL-HU-2	MINA 5-10kTL-HU-3	MINA 5-10kTL-HU-4	MINA 5-10kTL-HU-5	MINA 5-10kTL-HU-6	MINA 5-10kTL-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]	84.3kg	140.6kg	196.9kg	253.2kg	309.5kg	365.8kg	422.1kg
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 5kTL-HU	MINA 6kTL-HU	MINA 8kTL-HU	MINA 10kTL-HU
PV Side				
Max recommended PV power	10000W	12000W	16000W	20000W
Max.DC voltage	600V			
Start voltage	50V			
Nominal voltage	380V			
MPP work voltage range	40-550V			
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	5000W	6000W	8000W	9990W
Rated AC apparent power	5000VA	6000VA	8000VA	9990VA
Nominal AC voltage/range	230V			
Nominal frequency/range	50/60 Hz (45-55Hz / 55-65 Hz)			
Max.input/output current	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	5000VA	6000VA	8000VA	9990W
Max.output power	1.5Pn @10s			
Rated output current	21.7A	26A	34.8A	43.5A
Bypass current	63A			
Switch time	<10ms			
Efficiency				
Max.efficiency	97.5%			
European efficiency	96.80%			
Battery Side				
Battery module	APX 7.0P-B3			
Rated charge/discharge current	7.5A			
Max. charge/discharge current	8.57A			
Battery dimension (W/D/H)	740/255/265			
Battery weight	56.3kg			
Voltage range	350V-550V			
Energy capacity	7kWh/pack | Totalsystem:7-49kWh			
Max.charge/discharge power*[2]	5000W	6000W	8000W	9990W
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(Active frequency drift), Residual-current monitoring, DC/AC surge protection, Protective class (Class I)			
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	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 cell manufacturer. Test conditions: 25℃±2℃, 0.25C charge and discharge rate, EOL: 60%.

* Specifications are preliminary and may change without notice.