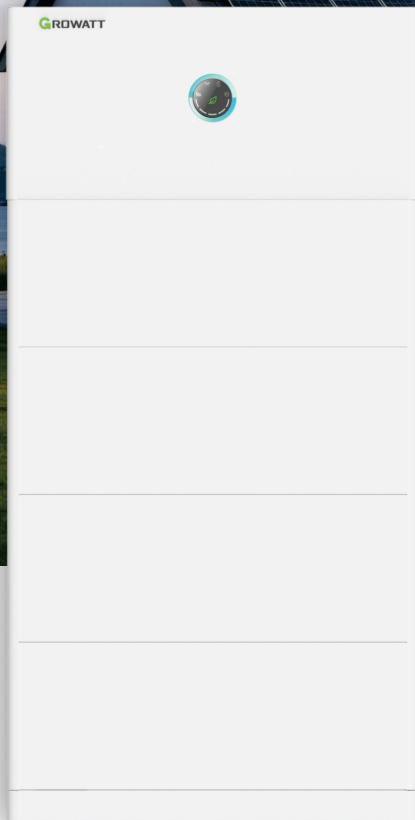


MINA All-In-One Solution (AU)

- 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



P O W E R
- I N G
T O M O R R O W

GROWATT

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 nominal 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	99.50%							
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	-20~50℃							
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.