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Reliable Off-Grid Power for Your Home
500W / 1KWH energy output for lights, phones, fans, TVs.
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Solar-Ready, Sun-to-Storage/Device in Minutes
Accepts 11-55V PV input (up to 300W).
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Power Everything, All at Once
AC + 4x12V DC + 4x5V DC (USB ports).
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Clear Battery Status at a Glance
Smart LED indicators show charge level, charging, or full.
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Plug & Play, Zero Installation
All-in-one design works out of the box.
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Ways to Use: Lay flat, Wall mounted, Portable
Place it, hang it or carry it.



Mini Residential Energy System Series

PRODUCT NAME	Mini Residential Energy System			
PRODUCT MODEL	M300B1K-EU	M500B1K-EU	M500B2K-EU	M1KB2K-EU
● Lithium Iron Battery				
Capacity	1004.8Wh		2009.6Wh	
Typical Capacity	314Ah		314Ah*2	
Nominal Battery Voltage	3.2Vdc			6.4Vdc
Battery Cycle Life	>6000 times			
● Inverter/Charger				
Rated AC Output Power	300W	500W	500W	1000W
Output Voltage Waveform	Pure Sine Wave			
Output Voltage	220±5Vac, 50Hz			
Low DC Cut-off Voltage	3.0Vdc			6.0Vdc
Charging Power(Mains and Solar)	300W Max.	500W Max.	500W Max.	1000W Max.
Charge Time(Mains and Solar)	3.5hours	2hours	4hours	2hours
● DC output				
Rated DC Output Power	100W			130W
DC Output Power Distribution	5Vdc*4(total 25W) 12Vdc*4(total 75W)			5Vdc*4(total 30W) 12Vdc*4(total 100W)
Output Terminal	2*USB-A/5Vdc, 2*TYPE-C/5Vdc, 4*DC5521/12Vdc			
● AC Input				
Nominal Input Voltage	230Vac			
Input Voltage Range	90-280±5Vac			
Nominal Input Frequency	45-65Hz			
AC Charging Power	300W Max.		550W Max.	
● Solar Input				
Input Voltage Range	11~55Vac			
Maximum Input Current	10A Max.			15A Max.
Maximum Output Current	80A Max.			100A Max.
Maximum Output Power	300W Max.			550W Max.
● General Specifications				
Operating Temperature	0~45°C			
Storage Temperature	-20~60°C			
Altitude	≤3000m			
Humidity	10%~90%			
IP Grade	IP21			
Net Weight	9.3kg	9.5kg	15.5kg	15.8kg
Dimensions(L*W*H)	305*230*140mm		310*230*213mm	
Protection	Overcharge and overdischarge protection /Overcurrent protection Overload protection/Short circuit protection /Fault protection			
Warranty	1 year			
Certification	CE			