



Balcony Solar Storage System SunMini

Save More. Store Smarter.
Start Simple.



- 10,000 Cycles. Built for Long-Term Reliability
- 2,500 W Output. Power What Matters
- AI Optimization. Maximize Your Savings
- Plug & Play. Right Size for Your Modern Homes
- Expandable up to 20 kWh with Battery Modules
- Scale up to 4 Units. Maximum 80 kWh Storage



Technical Data



Model		LH-BMU-4402501CE
PV Input (PV)	Max. PV Input Power	2800 W
	Max. Input Voltage per Input	60 d.c. V
	Operating Voltage Range per Input	16- 60 d.c. V
	Quantity of MPPT	4
Battery (DC)	Battery Type	LiFePO ₄
	Battery Capacity	4.02 kWh
	Max. System Capacity	12.06 kWh (Compatible with LH-BEB-2000001CE, 2 kWh battery)
	Nominal Voltage	51.2 d.c. V
AC Port (On-grid)	Life Cycle	10000 (@25°C ±2°C, 60%EOL)
	Max. AC Output Power	800 W/2500 W
	Max. AC Input Power	2500 W
	Nominal AC Voltage	220 V/230 V/240 V
AC Port (Off-grid)	Nominal AC Frequency	50/60 Hz
	Max. AC Output Power	2500 W
	Nominal AC Voltage	220 V/230 V/240 V
	Nominal AC Frequency	50/60 Hz
General Data	Switch Time	≤ 10 ms
	Dimensions (W × H × D)	493 ×305×295 mm
	Weight	48 kg
	Communication Mode	WiFi (Bluetooth) + RS485
	Protection Degree (IP Rating)	IP65
	Cooling Method	Natural Convection Cooling
	Operating Temperature Range	-20 ~ 55°C
	Relative Humidity	0 ~ 95%, No Condensation
Extended Battery		LH-BEB-2000001CE
Battery (DC)	Max. Operating Altitude	2000 m
	Battery Type	LiFePO ₄
	Battery Capacity	2.01 kWh
	Max. System Capacity	12.06 kWh
General Data	Nominal Voltage	51.2 d.c. V
	Life Cycle	10,000 (@25°C ±2°C, 60%EOL)
	Dimensions (W × H × D)	493 × 308 × 220 mm
	Weight	29 kg
	Protection Degree (IP Rating)	IP65
	Cooling Method	Natural Convection Cooling
	Operating Temperature Range	-20 ~ 55°C
	Relative Humidity	0 ~ 95%, No Condensation