



SUN-BOX-AIO

ALL - IN - ONE BALCONY ENERGY STORAGE



BUILT-IN SAFETY

LFP batteries and fire-fighting system to ensure the highest safety standards.



ENHANCED PERFORMANCE IN COLD WEATHER

Smart heating system ensuring consistent energy production even in low temperature.



QUICK INSTALLATION

Modular stackable design adaptive plug & play self-configuration.

Specifications

AC TECHNICAL SPECIFICATION	Nominal Input/Output Power & UPS Power	800 W / 800 W
	AC Input/Output Frequency and Voltage	50 Hz(45 Hz - 55 Hz),L/N/PE,220 Vac/230 Vac
	Grid Type	Single Phase L1+N
	Rated Grid Input/Output Current	4 A
	Max. Grid Input/Output Current	4.5 A
	Peak Power (Off Grid)	1600 W Peak Power
	Power Factor Adjustment Range	0.8 leading to 0.8 lagging
	Power Factor	1
	THD	Non-Linear Load THD < 3% and Linear Load THD < 1.5%
	PV TECHNICAL SPECIFICATION	Max. PV Input Power
Max. PV Input Current		2 * 15 A
Max. PV Short-Circuit Current		2 * 18 A
PV Input Voltage Range		20 Vdc ~ 60 Vdc
MPPT Start Up Voltage		25 Vdc
MPPT Voltage Range		25 Vdc - 60 Vdc
BATTERY TECHNICAL SPECIFICATION	Number of MPPT	2
	Battery Material	LiFePO4
	Battery Nominal Voltage	38.4 Vdc
	Battery Nominal Capacity	50 Ah
	Battery Nominal Energy	1920 Wh
	Max. Charging/Discharging Current	40 A
	Battery Operating Voltage	32.4 Vdc - 43.2 Vdc
	Battery Cycle Life	4000 (@25 °C 0.5C @15 °C ~ 25 °C)
	Battery Storage Temperature	-20 °C +65 °C
	BMS Operating Temperature	-20 °C +50 °C (Auto Heating Function)
Heating Function	WeCo Smart Heating Control	

Micro Sun
Inverter 800 W



Battery Module
2 kWh +1200 W MPPT



Expansion
Battery Module 2 kWh



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ENERGY STORAGE BATTERY

Specifications

SAFE PROTECT SPECIFICATION	Reverse Polarity Protection	YES
	AC Interface OCP/OVP	YES
	BMS Protect	OVP , UVP , OCP , SCP , OTP , UTP
MAINTENANCE TECHNICAL SPECIFICATION	Communication For Maintenance	RS485 / RJ45
	Events Memory List	200 Events
	AC Automatic Emergency Charge	YES
	System Parallel Automatic Emergency Charge	YES
	PV Input Force Charge Priority Logic	YES
	HMI Interface	LED & KEY Start Key + Parallel, Auto Recovery Key 1 LED indicator Parallel; 1 LED indicator AUX Comm (APP); 4 LEDs indicator SOC WeCo Smart APP
OTHER TECHNICAL SPECIFICATION	Communication Interfaces	WiFi & Bluetooth
	Dimensions (W x D x H) (mm)	400 x 290 x 450
	Appr. Weight	23 Kg
	Max. Operating Altitude	3,000 m
	Related Humidity	15%-85% (non-condensing)
	Safety & EMC Standard	IEC62109, UN38.3, IEC/EN 62109-1, IEC/EN 62109-2, IEC61000-6-1, IEC61000-6-2, IEC61000-6-3, IEC61000-6-4 VDE4105, IEC61727/62116, VDE0126, A54777.2, CEI 0 21, EN50549-1, G98, G99, C10-
	Grid Regulation Standard	11, UNE217002, NBR16149/NBR16150
	Battery Certifications	UN38.3, IEC62619
	Capacity Expansion	YES 1 Battery Module Stack Expansion
	Ingress Protection	IP65
	Performance Warranty	10 Years
	Installation Style	Floor-Mounted
Cooling	Natural Cooling	

