

WECO

Intelligent.
Compact.
Reliable.



SUN BOX BALCONY

On Grid Balcony Energy Storage

Smart Heating System for Outdoor Applications
Plug & Play Balcony Energy Storage System

SUN-BOX-AIO

HYBRID ON GRID ENERGY STORAGE ALL - IN - ONE



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%
	Max. PV Input Power	2 inputs 600 W each
PV TECHNICAL SPECIFICATION	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
	Number of MPPT	2
	Battery Material	LiFePO4
	Battery Nominal Voltage	38.4 Vdc
	Battery Nominal Capacity	50 Ah
	Battery Nominal Energy	1920 Wh
BATTERY TECHNICAL SPECIFICATION	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



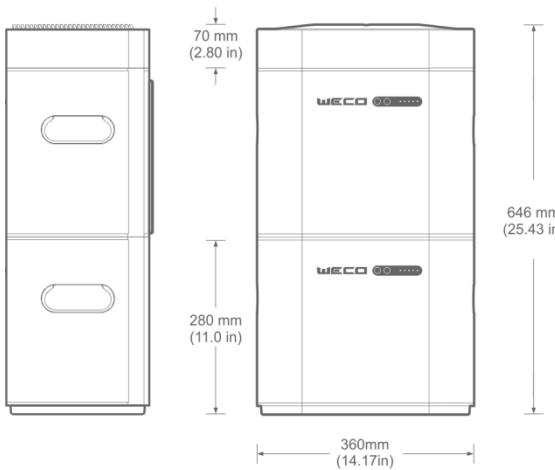
SUN-BOX-AIO

ENERGY STORAGE BATTERY

ALL - IN - ONE

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
OTHER TECHNICAL SPECIFICATION	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
	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, C10-11, UNE217002, NBR16149/NBR16150
	Grid Regulation Standard	
	Battery Certifications	UN38.3, IEC62619
	Capacity Expansion	YES 1 Battey Module Stack Expansion
	Ingress Protection	IP65
	Performance Warranty	10 Years
	Installation Style	Floor-Mounted
	Cooling	Natural Cooling





SUN BOX

BALCONY STORAGE SYSTEM

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BUILT-IN SAFETY

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



ENHANCED PERFORMANCE IN COLD WEATHER

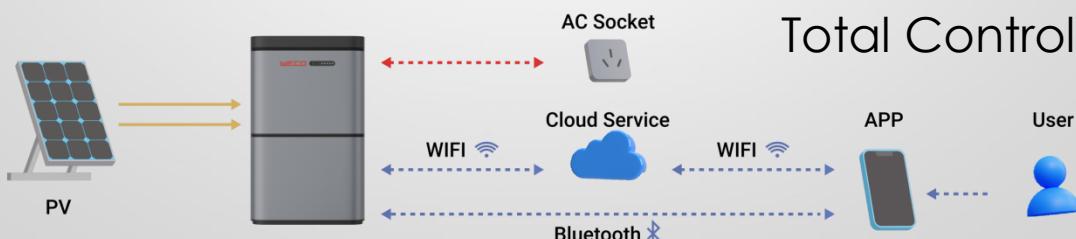
Smart heating system ensuring consistent energy production even in low temperature.



QUICK INSTALLATION

Modular stackable design adaptive plug & play self-configuration.

Total Control



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