

Joos Box

The All-in-One Outdoor Battery Storage Solution



The Joos Box is a complete outdoor energy storage system designed to deliver reliable, year-round performance while ensuring ease of installation and compliance with PAS 63100:2024 and BS 7671 standards

Key Features



Combines a 5 or 10 kWh LiFePO4 battery and hybrid solar inverter (3.6 / 5 / 8 kW) into a single, easy-to-install unit



IP55, IK10 impact-resistance, fan controlled heating & cooling make this AIO outdoor-ready for the UK



Safe and secure terminals and MC4 connections



Optional 7 kW AC EV Charger integrated



10 Year warranty



EPS included: No gateway module required for emergency battery backup in event of grid outage



Built-in Protection: IK10 impact resistance, Active fire suppression, tamper alarm, AC & DC isolator switches, DC ground fault protection, DC MCBs, anti-islanding, surge protection, overcurrent/overvoltage/short-circuit protection



Intelligent Energy Management: Compatible with the SOLARMAN Smart app for homeowners to easily monitor and manage their energy usage

Technical Specification

PV String Input

Model	SlimFit-3.6K5B	SlimFit-3.6K10B	SlimFit-5K5B	SlimFit-5K10B	SlimFit-8K10B
Max. Input power (kW)	5.4	5.4	7.5	7.5	12
Start-up voltage (V)			100		
Max. PV input voltage (V)			550		
MPPT range/nominal (V)			80~500/360		
Max.input current of single MPPT (A)			16/16		
Max.short circuit current (A)			18.5*2		

AC Output

Model	SlimFit-3.6K5B	SlimFit-3.6K10B	SlimFit-5K5B	SlimFit-5K10B	SlimFit-8K10B
Rated power (kW)	3.68	3.68	5	5	8
Max.AC current output to grid (A)	16	16	21.7	21.7	38.3
Nominal voltage/range (V)			230 /176~270		
Frequency (Hz)			50 /60		
Power factor			1(0.8 leading-0.8 lagging)		
THDi			<2%		
AC grid type			L+N+PE		

Battery

Model	SlimFit-3.6K5B	SlimFit-3.6K10B	SlimFit-5K5B	SlimFit-5K10B	SlimFit-8K10B
Nominal voltage/ Voltage range (V)			51.2 / 40~58		
Charge/Discharge cut-off voltage (V)			58.4/42		
Charge/Discharge current (A)	20/20	40/40	20/20	40/40	40/40
Battery capacity (kWh)	5.12	10.24	5.12	10.24	10.24
Battery type			LiFePO4		
Communication Interface			CAN/RS485		

Emergency Power Supply (EPS) Output

Model	SlimFit-3.6K5B	SlimFit-3.6K10B	SlimFit-5K5B	SlimFit-5K10B	SlimFit-8K10B
Rated power (kW)	3.68	3.68	5	5	8
Max.AC current output to grid (A)	16	16	21.7	21.7	38.3
Rated voltage (V)			230		
Rated frequency (Hz)			50 / 60		
Automatic switchover time (ms)			<10		
THDu			<2%		
Overload capacity			110%, 60S/ 120%, 30S/ 150%, 10S		

EV Charger AC 7KW (Optional)

Model	SlimFit-3.6K5B	SlimFit-3.6K10B	SlimFit-5K5B	SlimFit-5K10B	SlimFit-8K10B
Input/Output voltage (V)			AC230V±20%		
Input/Output current (A)			32		
Charging port type			Type 2		
Bluetooth			Yes		
Control mode			RFID/APP		
OCPP 1.6			Yes		

General Data

Model	SlimFit-3.6K5B	SlimFit-3.6K10B	SlimFit-5K5B	SlimFit-5K10B	SlimFit-8K10B
Battery charge/discharge efficiency			96%		
Max. efficiency			98%		
Europe efficiency			97%		
MPPT efficiency			99.9%		
Ingress protection			IP55		
Noise emission (dB)			<35		
Operation temperature (°C)			-25~ 60		
Climate Control			Fan controlled heating and cooling		
Relative humidity			0 ~95% (non-condensing)		
Operating altitude			0~2000m (no derating below 2000m)		
Dimensions W * D * H (mm)			738*380*1728		
Net weight (kg)			200KG		
Material			Non-isolated		
Self-consumption at night (W)			<15		
Display			Optional (colorful touch screen /no screen)		
Communication			WiFi; RS485; CAN; DRM 4G-option		