ECOFLOW

EcoFlow STREAM Series NEW

Your First Balcony Power Plant. Your Future Whole-Home Energy.

No.1

Smart Home Energy Storage Solution

EcoFlow ranked first globally in the smart home energy storage solutions industry by 2024 sales volume (10.2% market share). Data source: Frost & Sullivan, Global Smart Home Energy Storage Solutions Industry Research Report (research completed in December 2025). "Smart home energy storage solutions" refer to comprehensive solutions that couple energy generation storage systems with intelligent energy management technologies to generate, store, dispatch, and optimize home energy, which primarily encompass home solar systems, residential energy storage systems, home backup power stations and portable power stations.

STREAM AC 5000
Technical Specifications

BATTERY DATA

Battery Type	LiFePO4 / LFP
Nominal Voltage	50 V DC
Max Charge Current	90 A DC
Max Discharge Current	70.2 A DC
Rated Power (Single Unit)	2,500 W
Rated Energy	5,024 Wh
Rated Capacity	314 Ah

AC INPUT — ON-GRID

Max AC Input Power	3,000 W
Max AC Input Current	13.04 A AC
Max AC Charge Power	2,500 W
Max AC Charge Current	10.9 A AC
Nominal Input Voltage	L+N+PE, 220/230 VAC, 50 Hz

AC OUTPUT — ON-GRID

Output Power	600 / 790 / 800 / 2,500 / 3,000* W
Max Apparent Power	600 / 790 / 800 / 2,500 / 3000* VA
Max Output Current	2.6 / 3.4 / 3.5 / 10.9 A AC
Rated Output Power	600 / 790 / 800 / 2,500 / 3,000 W*
Rated Apparent Power	600 / 790 / 800 / 2,500 / 3000* VA
Rated Output Current	2.6 / 3.4 / 3.5 / 10.9A AC
Nominal Output Voltage	L+N+PE, 220/230VAC, 50 Hz
Power Factor Range	0.8 Lagging – 0.8 Leading

AC OUTPUT — OFF-GRID

Max Output Power	3,000 W*
Max Output Current	10.9 AAC
Max Bypass Output Power	3,600 W
Max Bypass Output Current	16 AAC
Nominal Output Voltage	L+N+PE, 220/230 VAC, 50 Hz

PROTECTION

Functions	Overvoltage · Overcurrent · Undervoltage · Short Circuit · Overheating · Overcharge · Overdischarge · Islanding Detection · Insulation Impedance · Surge

GENERAL

Dimensions (L×D×H)	295 × 287 × 489 mm
Weight	45.4 kg
Protective Class	Class I
Ingress Protection	IP65
Inverter Topology	Isolated
Wireless	Bluetooth, Wi-Fi 2.4 GHz
Operating Temperature	–20 to 55 °C
Max Altitude	3,000 m
Warranty	10 Years
Product Lifespan	15 Years

STREAM EXPANSION BATTERY

Battery Type	LiFePO4 / LFP
Nominal Voltage	50 V DC
Max Charge Current	40 A DC
Max Discharge Current	40 A DC
Rated Power	1,800 W
Rated Energy	5,024 Wh
Rated Capacity	314 Ah
Dimensions (L×D×H)	295 x 267 x 519 mm
Weight	43 kg
Protective Class	Class I
Ingress Protection	IP65
Operating Temperature	–20 to 55 °C
Max Altitude	3,000 m
Warranty	10 Years
Product Lifespan	15 Years

* 3000W output is available when PV generation occurs simultaneously or when paired with an Expansion Battery.