

Franklin Home Power

Whole Home Energy Freedom



Franklin Home Power (FHP) goes well beyond the demand for safe, reliable back-up to optimise daily household energy management, bringing you whole home energy freedom. The core FHP components are the aPower battery, the aGate intelligent controller, and the FranklinWH App.

Robust

- 12-year warranty

Safe

- IP67 rated
- LFP battery

Reliable

- UPS-level and multiple ports backup

Versatile

- Generator and off-grid compatible, black start supported

Scalable

- 13.6 kWh scalable up to 15

AC-coupled

- All AC connections, compatible with micro and string inverter

aPower X-01-AU

aGate X-01-AU

PERFORMANCE SPECIFICATIONS

Coupling	AC Coupled		
Nominal AC Voltage	230 V / 240 V, 50 Hz		
Feed-in Phase	Single Phase, L / N / PE		
Battery Chemistry	Lithium Iron Phosphate (LFP)	Max Over Current Protection Device Per aPower Branch	32 A
Usable System Energy	13.6 kWh per unit, scalability up to 15 units ¹	Max Over Current Protection Device Per Solar Branch ³	63 A
Aggregate Throughput	43 MWh	Max Grid Input Over Current Protection Device	100 A
Maximum Real Power	5 kW continuous 10 kW peak for 10 seconds	Max Over Current Protection Device for Backup Loads	80 A
Rated Backup Output Current	21.7 A	Max Generator Input Over Current Protection Device ⁴	100 A
Maximum Output Fault Current	32 A	Max Over Current Protection Device Per Smart Circuits Branch ⁵	63 A
Round Trip Efficiency	89% ²	Communications	4G / WiFi / Ethernet
Maximum Supply Fault Current	10 kA		
Work Modes	Self-Consumption, Time of Use, Emergency Backup		
Warranty	12 years ⁶		

ENVIRONMENTAL SPECIFICATIONS

Ingress Rating	IP67 (Battery and power converter system), IP56 (Wiring compartment)	Ingress Rating	IP55
Operating Temperature	-20°C to 50°C		
Operating Humidity (RH)	Up to 95% RH, condensing		
Altitude	4,000 m		
Environment	Indoor and Outdoor		
Noise Emission (Optimal)	< 30 dB (A) ⁷		

MECHANICAL SPECIFICATIONS

Dimensions (H x W x D)	1150 mm x 750 mm x 290 mm	Dimensions (H x W x D)	650 mm x 480 mm x 160 mm
Weight	185 kg	Weight	13.5 kg
Mounting	Wall mount or floor mount		

COMPLIANCE INFORMATION

Certifications	IEC / EN 62109-1, IEC / EN 62109-2, IEC / EN 62477-1, AS / NZS 4777.2, IEC 61727, IEC 62116, IEC / EN 62040-1, IEC / EN 61439-1, IEC / EN 61439-3
Seismic	AC 156, OSHPD, IEEE 693-2005 (high)
Environmental	RoHS Directive 2011 / EU
Emissions	IEC 61000-6-1, IEC 61000-6-3

1. For support of more than 4 parallel aPowers, please contact us.
2. At beginning of life, AC to battery to AC, 50% power rating.
3. Two solar branch circuits are supported per aGate.
4. Generator module is optional.

5. Smart circuits module are optional with two circuits supported per aGate.
6. Refer to Franklin Home Power Limited Warranty for Terms and Conditions.
7. 5kW discharge power, no fan running.

