

Franklin Home Power

Whole-home Energy Independence



Robust

12 years product / performance warranty

Safe

Cobalt-free LFP battery

Reliable

UPS-level uninterrupted power supply protection

Versatile

Generator compatible, supports full offgrid scenarios and whole home black-out backup

Scalable

13.6kWh battery, up to 15 parallel capability

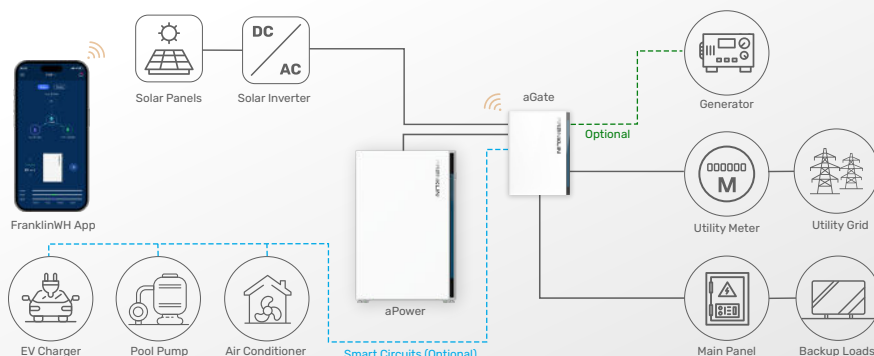
Smart

Auto load-shedding to maximise backup time

Franklin Home Power Solution ("FHP")

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

- The **aGate** is an intelligent management device integrating solar, grid, generator and aPower batteries to support home loads.
- The **aPower** is an LFP battery with a built-in advanced inverter.
- FranklinWH App** provides real-time monitoring and control of home energy sources and consumption.



Performance

Model Number	aGate X-01-AU aPower X-01-AU
Battery Chemistry	Lithium Iron Phosphate (LFP)
Usable System Energy	13.6 kWh per unit, scalability up to 15 units ¹
Aggregate Throughput	43 MWh
Nominal AC Voltage	230 V / 240 V, 50 HZ
Maximum Real Power (Continuous)	5 kW
Maximum Apparent Power (Continuous)	5 kVA
Rated Output Current	21.7 A
Rated Backup Output Current	21.7 A
Maximum Supply Fault Current	10 kA
Maximum Output Fault Current	32 A
Battery DC Voltage	51.2 V
Inverter Max Efficiency	96.5%
Round Trip Efficiency	89% ²
Noise Emission (Optimal)	< 30 dB (A)
Communications	Ethernet / 4G / WiFi / Bluetooth
User Interface	FranklinWH App
Warranty	12 years

Electrical Connections

Max Over Current Protection Device Per aPower Branch	32 A
Max Over Current Protection Device Per Solar Branch ³	63 A
Max Grid Input Over Current Protection Device	100 A
Max Generator Input Over Current Protection Device ⁴	100 A
Max Over Current Protection Device Per Smart Circuits Branch ⁵	63 A

Electrical Interface

Coupling	AC Coupled
Feed-in Phase	Single Phase
Connection Support	L / N / PE

Work Modes

Self-Consumption
Time of Use
Emergency Backup

Environmental

Operating Temperature	-20°C to 50°C
Operating Humidity (RH)	Up to 95% RH, condensing
Altitude	4,000 m
Ingress Rating	aPower: IP67 (Battery and power converter system), IP56 (Wiring compartment) aGate: IP55
Storage Condition	-10°C to 45°C Up to 95% RH, non-condensing

Mechanical

Dimensions (H × W × D)	aPower: 1150 × 750 × 290 mm aGate: 650 × 480 × 160 mm
Weight	aPower: 185 kg aGate: 17 kg
Installation	Wall mount or floor mount

Compliance & Certificates

aPower	IEC / EN62109-1, IEC / EN62109-2, UL1973, IEC / EN62477-1, AS/NZS 4777.2:2020, IEC62040-1, IEC / EN62619
aGate	IEC / EN62109-1, IEC / EN62109-2, IEC / EN62477-1, AS/NZS 4777.2:2020, IEC62040-1, IEC / EN61439-1, IEC / EN61439-2
Seismic	AC156, OSHPD, IEEE 693-2005 (high)
Environmental	RoHS Directive 2011 / EU
Emissions	IEC61000-6-1, IEC61000-6-3
Country of Manufacture	China

- Please contact us if you have large capacity requirements.
- At beginning of life, AC to battery to AC, 50% power rating.
- Two solar branch circuits are supported per aGate.
- Generator integration is optional.
- Smart circuits are optional with two circuits supported per aGate.

