

FranklinWH Home Energy Management System



The FranklinWH System goes well beyond the demand for safe, reliable backup to optimise daily household energy management, bringing you whole home energy freedom. The core components in the FranklinWH System are the aPower battery, the aGate intelligent controller, and the FranklinWH App.

Robust

- 12 years or 60 MWh throughput warranty
- Resilient, all-metal casing

Versatile

- Inverter & generator agnostic
- Black start capable, off-grid ready

Safe

- C5 salt resistance
- LFP cells & Automotive-grade components

Scalable

- 15 kWh scalable up to 225 kWh per aGate
- Up to 20 KW continuous with 4+ aPowers¹

Reliable

- Per-unit testing to ensure superior consistency
- Compared to batch testing

AC-coupled

- Easy & fast retrofit setup
- Supports 1, 2, & 3 phase configurations

SPECS

Series Name		aPower X	
Product Model	aPower X-02-AU	Coupling	AC Coupled
Battery Chemistry	Lithium Iron Phosphate (LFP)	Rated Input / Output Apparent Power	5 kVA
Usable Energy	15 kWh	Power Factor Range	0.8 leading to 0.8 lagging
Rated Battery Capacity	16 kWh	Rated Input / Output Voltage	230/240 VAC L/N/PE
Battery Depth of Discharge	93.75%	Frequency	50 Hz
Battery Max Charge/Discharge Current	118A	Rated Input / Output Current	21.7 A
Battery Max / Min / Nominal DC Voltage	58VDC / 42VDC / 51.2VDC	Maximum Input / Output Current	24.5 A
Scalable	15 kWh scalable up to 225 kWh per aGate	Maximum Circuit Protection Device	32 A
Aggregated Throughput Energy	60 MWh	Max Inverter Efficiency	95.6%
Rated Input / Output Power	5 kW (per aPower with a system maximum of 20kW)	Round Trip Efficiency	89% ²
Peak Power	10 kW for 10 sec (per aPower with a system maximum of 40kW) ³	Warranty	12 years ⁶

Product Model		aGate X-01-AU	
AC Input (Grid)	Max. Current (A)	80 A	AC coupled PV system
	Max. Protection Device (A)	100 A	
AC Output (Back-up)	Max. Current (A)	80 A	Smart Circuits ⁴
	Max. Protection Device (A)	80 A	
	Rated Active/Apparent Power (230V)	18.4 kW/18.4 kVA	
	Rated Active/Apparent Power (240V)	19.2 kW/19.2 kVA	
AC Output (Non Back-up)	Max. Current (A)	63 A	Generator ⁵
	Max. Protection Device (A)	63 A	
	Rated Active/Apparent Power (230V)	14.49 kW/14.49 kVA	
	Rated Active/Apparent Power (240V)	15.12 kW/15.12 kVA	
aPower	Max. Current (A)	24.5 A	Communications
	Max. Protection Device (A)	32 A	
Rated Voltage	230/240 VAC L/N/PE	Frequency	50Hz
Power Factor Range	-1 leading to 1 lagging	Work Modes	Self-Consumption, Time of Use, Emergency Backup
Maximum Supply Fault Current	10 kA	Warranty	12 years ⁶

System Parameters		aPower X-02-AU	aGate X-01-AU
Ingress Rating		IP67 (Battery and power converter system), IP56 (Wiring compartment)	IP55
Operating Temperature		-20°C to 50°C	
Operating Humidity (RH)		Up to 100% 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
Weight	185 kg
Mounting	Wall mount or floor mount
Inverter Topology	None Isolated
Overvoltage Category	AC: III DC: II
Anti-islanding method	Frequency shift
Protective Class	Class I

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
Country of manufacturer	China

- For support of more than 4 parallel aPowers, please contact us.
- At beginning of life, AC to battery to AC, 50% power rating.
- Two solar branch circuits are supported per aGate.
- Smart circuits module are optional with two circuits supported per aGate

- Generator module is optional.
- Refer to Franklin Home Power Limited Warranty for Terms and Conditions.
- 5kW discharge power, no fan running.

The aGate X-01-AU(SKU: AGT-R1V1-AU) and the aPower X-02-AU(SKU: APR-05K15V1-AU) are available in Australia and New Zealand. For product availability in other regions, please visit our official website or contact a local authorized dealer.

