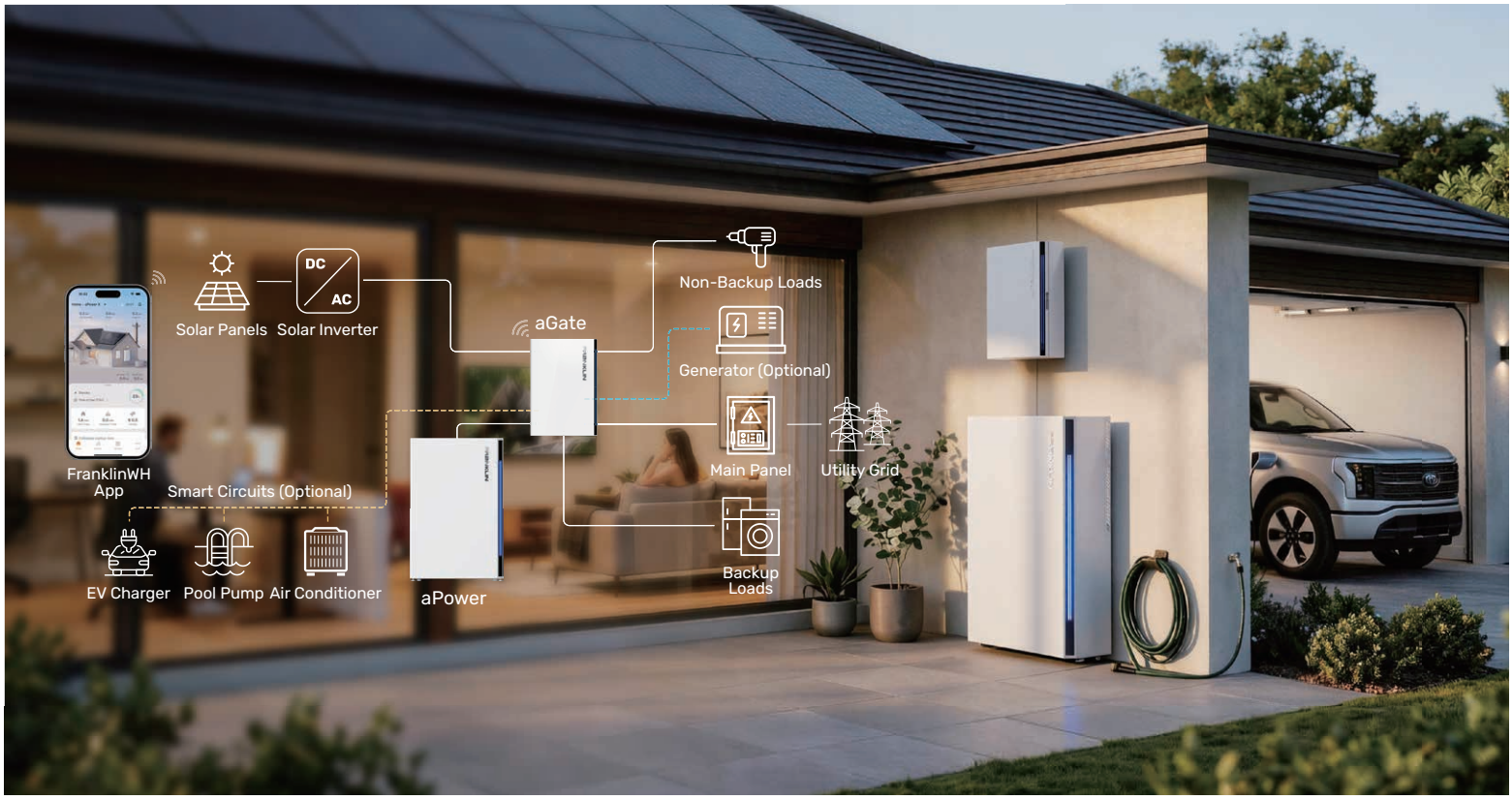
FranklinWH
Home Energy Management System



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

Safe

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

Reliable

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

Versatile

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

Scalable

- 15 kWh scalable up to 225 kWh per aGate
- Up to 20 KW continuous with 4+ aPowers[1]

AC-coupled

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

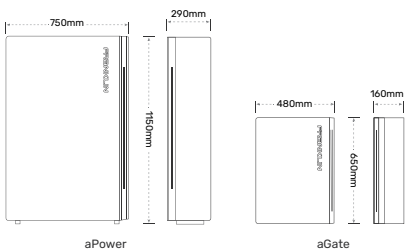
SPECS

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)[1]	Warranty	12 years[6]

Product Model	aGate X-01-AU				
AC Input (Grid)	Max. Current (A)	80 A	AC coupled PV system	Max. Current (A)[3]	50 A for single input or 31.5 A per AC coupled PV system
	Max. Protection Device (A)	100 A		Max. Protection Device (A)	63 A
AC Output (Back-up)	Max. Current (A)	80 A	Smart Circuits[4]	Max. Current (A)	50 A for single output or 31.5 A per output
	Max. Protection Device (A)	80 A		Max. Protection Device (A)	63 A
	Rated Active/Apparent Power (230V)	18.4 kW/18.4 kVA		Rated Active (Single or Two) (230V)	11.5 kW/7.245 kW
	Rated Active/Apparent Power (240V)	19.2 kW/19.2 kVA		Apparent Power (Single or Two) (230V)	11.5 kVA/7.245 kVA
AC Output (Non Back-up)	Max. Current (A)	63 A		Rated Active (Single or Two) (240V)	12 kW/7.56 kW
	Max. Protection Device (A)	63 A		Apparent Power (Single or Two) (240V)	12 kVA/7.56 kVA
	Rated Active/Apparent Power (230V)	14.49 kW/14.49 kVA	Generator[5]	Max. Current (A)	80
	Rated Active/Apparent Power (240V)	15.12 kW/15.12 kVA		Max. Protection Device (A)	100
aPower	Max. Current (A)	24.5 A	Communications	4G / WiFi / Ethernet	
	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	
Operating Volume @ 1 m	< 30 dB(A) typical / < 44 dB(A) maximum[7]	
Mechanical Specifications		
Dimensions (H × W × D)	1150 mm × 750 mm × 290 mm	650 mm × 480 mm × 160 mm
Weight	185 kg	13.5 kg
Mounting	Wall mount or floor mount	
Inverter Topology	None Isolated	
Overvoltage Category	AC: III DC: II	
Anti-is landing 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	

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. Smart circuits module are optional with two circuits supported per aGate
5. Generator module is optional.
6. Refer to Franklin Home Power Limited Warranty for Terms and Conditions.
7. Typical(fan off). Maximum(fan on).



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.

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WWW.FRANKLINWH.COM FranklinWH Technologies Co., Ltd.

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