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 43 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

- 13.6 kWh scalable up to 204 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
Product Model	aPower X-01-AU
Battery Chemistry	Lithium Iron Phosphate (LFP)
Usable Energy	13.6 kWh
Rated Battery Capacity	14.336 kWh
Battery Depth of Discharge	95%
Battery Max Charge/Discharge Current	118A
Battery Max / Min / Nominal DC Voltage	58VDC / 42VDC / 51.2VDC
Scalable	13.6 kWh scalable up to 204 kWh per aGate
Aggregated Throughput Energy	43 MWh
Rated Input / Output Power	5 kW (per aPower with a system maximum of 20kW)
Peak Power	10 kW for 10 sec (per aPower with a system maximum of 40kW)[1]
Coupling	AC Coupled
Rated Input / Output Apparent Power	5 kVA
Power Factor Range	0.8 leading to 0.8 lagging
Rated Input / Output Voltage	230/240 VAC L/N/PE
Frequency	50 Hz
Rated Input / Output Current	21.7 A
Maximum Input / Output Current	24.5 A
Maximum Circuit Protection Device	32 A
Max Inverter Efficiency	95.6%
Round Trip Efficiency	89%[2]
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	Generator[4]	Max. Current (A)	80
	Max. Protection Device (A)	80 A			
	Rated Active/Apparent Power (230V)	18.4 kW/18.4 kVA		Max. Protection Device (A)	100
	Rated Active/Apparent Power (240V)	19.2 kW/19.2 kVA			
AC Output (Non Back-up)	Max. Current (A)	63 A	Smart Circuits[5]	Max. Current (A)	50 A for single output or 31.5 A per output
	Max. Protection Device (A)	63 A		Max. Protection Device (A)	63 A
	Rated Active/Apparent Power (230V)	14.49 kW/14.49 kVA		Rated Active (Single or Two) (230V)	11.5 kW/7.245 kW
				Apparent Power (Single or Two) (230V)	11.5 kVA/7.245 kVA
	Rated Active/Apparent Power (240V)	15.12 kW/15.12 kVA		Rated Active (Single or Two) (240V)	12 kW/7.56 kW
				Apparent Power (Single or Two) (240V)	12 kVA/7.56 kVA
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				
Power Factor Range	-1 leading to 1 lagging				
Frequency	50Hz				
Maximum Supply Fault Current	10 kA				
Work Modes	Self-Consumption, Time of Use, Emergency Backup				
Warranty	12 years[6]				

System parameters	aPower X-01-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]	

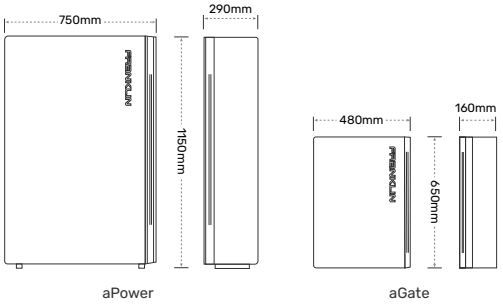
Mechanical Specifications

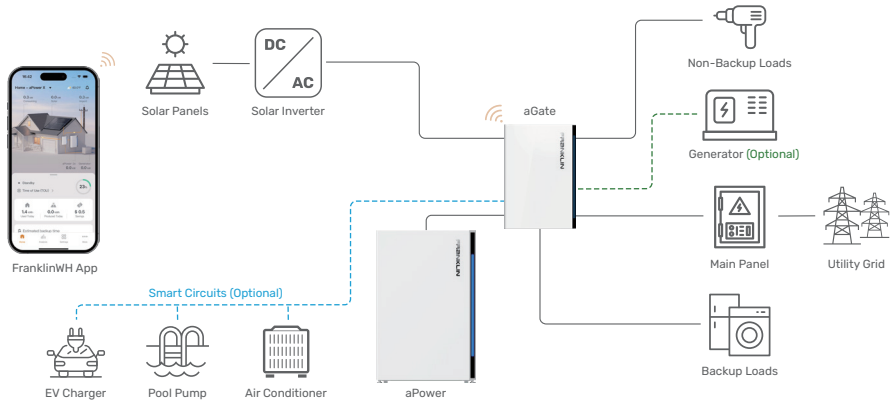
Dimensions (H × W × D)	1150 mm × 750 mm × 290 mm	650 mm × 480 mm × 160 mm
Weight	185 kg	13.5 kg
Mounting	Wall mount or floor mount	
Inverter Topology	None Isolated	
Overvoltage Category	AC: III DC: II	
Anti-is landing method	Frequency shift	
Protective Class	Class I	

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. 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. Typical(fan off). Maximum(fan on).





The aGate X-01-AU(SKU: AGT-R1V1-AU) and the aPower X-01-AU(SKU: APR-05K13V1-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.