

# aPower + aGate

## Whole-home storage to energize your fullest life



### Reliable

Exceeds performance standards, backed by 12-year warranty

### Flexible

Technology-agnostic system can be used with any solar inverter

### Scalable

Highest system density allows up to 15 units for 204 kWh<sup>1</sup>

### Simplified

Pre-assembled for fast, easy one-step installation

### Hassle-free

Remote monitoring and user-friendly app limits O&M

## Franklin Home Power Solution ("FHP")

Franklin Home Power goes well beyond the demand for safe, reliable back-up to optimize daily household energy management. Our powerful performance stems from integrating the highest AC battery capacity with the industry's most intelligent controls.

- a.** aPower is the AC battery with built-in advanced inverter.
- b.** aGate is the energy management device connecting the grid, the loads, the generator and the solar system.
- c.** FranklinWH App provides seamless monitoring and control of your whole home energy.



## Performance

### AC Battery

Battery Chemistry	Lithium Iron Phosphate (LFP)
Usable System Energy	13.6 kWh per unit, scalability up to 15 units <sup>1</sup>
Aggregate Throughput	43 MWh
Communications	Ethernet / 4G / WiFi
Nominal AC Voltage	120 V / 240 V, 60 Hz
Maximum Continuous / Peak Discharge Power (10 s)	5 kW / 10 kW
Maximum Supply Fault Current	20 kA
Switch Over Time (grid to micro-grid)	<16 ms
Round Trip Efficiency	89% <sup>2</sup>
Inverter Topology	Isolated
Noise Emission (optimal)	<30 dB (A)
User Interface	FranklinWH App
Warranty	12 years

### Electrical Connections

aPower Over Current Protection Device	90 A Max
Solar Input Over Current Protection Device	80 A Max
Generator Over Current Protection Device <sup>3</sup>	200 A Max
Smart Circuits Over Current Protection Device <sup>4</sup>	Opt. a 1 × 80 A Max @240 V & 1 × 50 A Max @240 V Opt. b 1 × 80 A Max @240 V & 2 × 50 A Max @120 V

### Electrical Interface

Coupling	AC Coupled
Feed-in Phase	Split Phase
Connection Support	L1 / L2 / N / PE

### Work Modes

Self-Consumption
Load Shifting
Backup Standby

## Environmental

Operating Temperature	-4°F to 122°F (-20°C to 50°C)
Operating Humidity (RH)	Up to 100% RH, condensing
Altitude	Maximum 9,843 ft (3,000 m)
Ingress Rating	IP67 (Battery and power converter system) IP56 (Wiring compartment)
Storage Condition	14°F to 113°F (-10°C to 45°C) Up to 95% RH, non-condensing
Enclosure Type	NEMA type 3R
Environment	Indoor and outdoor rated

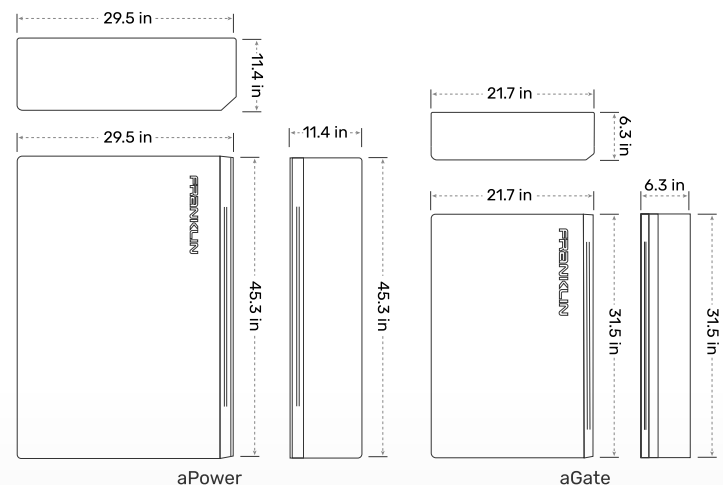
## Mechanical

Dimensions(H*W*D)	aPower X: 45.3 × 29.5 × 11.4 in (1150 × 750 × 290 mm) aGate X: 31.5 × 21.7 × 6.3 in (800 × 550 × 160 mm)
Weight	aPower X: 408 lb (185 Kg) aGate X: 50 lb (23 Kg)
Installation	Wall mount or floor mount

## Compliance & Certificates

Certificates	aPower X: UL 9540, UL 1741, UL 1741SA, UL 1973, UL 9540A, IEEE 1547, IEEE 1547.1, UN 38.3 aGate X: UL 1741 PCS, UL 67 <sup>5</sup> , UL 869A <sup>5</sup> , UL 916 <sup>5</sup>
Seismic	AC156, OSHPD, IEEE 693-2005 (high)
Environmental	California Proposition 65 RoHS Directive 2011 / EU
Emissions	FCC Part 15 Class B, ICES 003

- 1: Please contact us if you have large capacity requirements.
- 2: At beginning of life, AC to battery to AC, 50% power rating.
- 3: Generator integration is optional.
- 4: Smart Circuits are optional.
- 5: Sections from these standards were used during the safety evaluation and included in the UL 1741 listing.



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