

Franklin Home Power

The Franklin Home Power (FHP) system integrates multiple on-site sources of power generation into a robust energy control system that is managed via a simple mobile app. FHP contains an aGate, the FranklinWH App and aPower batteries.



aGate - Smart Energy Management System

- Micro-grid interconnect device (MID)
- Compatible with any brand of solar inverter and standby generator
- Optional Smart Circuits Module for intelligent load management (installed internally)
- Optional Generator Module, for intelligent integrations of standby generators in power infrastructure
- Compatible for grid-tied and off-grid applications
- Redundant communication options ensure connectivity: Ethernet, Wifi, 4G

aPower - AC-Coupled Battery

- Lithium Iron Phosphate (LFP) battery cell
- Energy expandable from 13.6 kWh to 204 kWh, with continuous output power from 5 kW to 38.4 kW (15 units per aGate)¹
- 12-year warranty, 43 MWh throughput
- IP67 waterproof and dustproof design, suitable for critical outdoor using
- Natural air-cooled design to maximize maintenance free reliability

FranklinWH App - Easy Energy Management

- Quick and easy commissioning with remote diagnostic capabilities
- Real-time and historic energy monitoring and control of power generation and consumption, in one app



Performance

Battery Chemistry	Lithium Iron Phosphate (LFP)
Usable Battery Energy	13.6 kWh per unit, scalability up to 15 units ¹
Aggregate Throughput	43 MWh
Communications	Ethernet / 4G / Wifi
Nominal AC Voltage	120 V / 208 V, 120 V / 240 V, 60 Hz
Continuous / Peak Discharge Power	5 kW / 10 kW
Load Start Capability	118 A LRA ²
Coupling	AC Coupled
Phase	Single Phase: L1 / L2 / N / PE
Round Trip Efficiency	89% ³
Work Modes	Self-Consumption, Time of Use, Emergency Backup
Maximum Supply Fault Current	20 kA
Noise Emission (optimal)	<30 dB (A)
User Interface	FranklinWH App
Warranty	12 years

Electrical Connections

aPower Over Current Protection Device	100A Max
Solar Input Over Current Protection Device	80A Max
Backup Load Port Over Current Protection Device	200A Max
Generator Over Current Protection Device ⁴	200A Max
Smart Circuits Over Current Protection Device ⁵	Opt. a 1 × 80 A Max @ 208 V / 240 V & 1 × 50 A Max @ 208 V / 240 V Opt. b 1 × 80 A Max @ 208 V / 240 V & 2 × 50 A Max @ 120 V

Mechanical

Dimensions (H × W × D)	aGate: 31.5 × 21.7 × 6.3 in (800 × 550 × 160 mm) aPower: 45.3 × 29.5 × 11.4 in (1150 × 750 × 290 mm)
Weight	aGate: 50 lb (23 kg) aPower: 408 lb (185 kg)
Installation	Wall mount or floor mount
Cooling	Natural air-cooled design

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

Compliance & Certificates

Certificates	aGate: UL 1741 PCS, UL 67 ⁶ , UL 869A ⁶ , UL 916 ⁶ , CAN/CSA C22.2 No. 107.1-16 aPower: UL 9540, UL 9540A, UL 1741SA, UL 1741SB, UL 1973, IEEE 1547, IEEE 1547.1, UN 38.3, CAN/CSA C22.2 No. 107.1-16
Seismic	AC156, OSHPD, IEEE 693-2005 (high)
Environmental	California Proposition 65 RoHS Directive 2011 / EU
Emissions	FCC Part 15 Class B, ICES 003

1: For 120V/208V applications, max. 4 aPowers per aGate can be connected in parallel.
Please contact us if you have large capacity requirements.

2: Load start capability may vary.

3: At beginning of life, AC to battery to AC, 50% power rating.

4: Generator Module is optional.

5: Smart Circuit Module is optional.

6: Sections from these standards were used during the safety evaluation and included in the UL 1741 listing.

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