FRANKLINWH

aPower 2

AC-coupled battery

The aPower 2 is the battery to power modern homes. It can store solar generated power while the sun is shining, store grid energy during lower rate periods, use the stored energy to lower electric bills and run heavy loads such as air conditioners and water heaters as usual even during grid outages. The homeowner even gains peace of mind by the battery fully charging before severe weather events. The aPower 2 also supports parallel AC-coupled connection with the FranklinWH aPower S batteries to expand power and capacity for homes at the same time.

The system is off-grid ready, designed to operate independently from the main power grid to deliver reliable energy in any situation.

- ✓ Max 10 kW continuous / 15 kW peak for 10s
- ✓ Max 8 kW charge power
- ✓ Safer LFP battery cell chemistry 15 kWh AC[1] per unit, up to 225 kWh (15 units) per aGate
- ✓ 15-year or 60 MWh throughput warranty

PERFORMANCE SPECIFICATIONS

Name	aPower 2
SKU	APR-10K15V2-US
Nameplate Model	aPower X-20
Certification / CEC Listing Name	aPower Xyyy
Battery Chemistry	Lithium Iron Phosphate (LFP)
Usable System Energy	15 kWh AC[1] per unit, up to 15 units per aGate
Aggregate Warrantied Throughput	60 MWh
Max Real Power (charge)	8 kW continuous[2]
Max Real Power (Discharge)	10 kW / 11.5 kVA continuous[2]
Nominal AC Voltage	120 / 240 V, 120 / 208 V, 60 Hz
Coupling	AC-Coupled
Phase	2 W+N+PE
Round Trip Efficiency (Grid – Battery – Load)	90%[1]
Maximum Short-Circuit Current Rating	10 kA
Work Modes	Self-Consumption Time of Use Emergency Backup
Noise Emission	30 dBA Typical 45 dBA Maximum
Flood Resistance (IP67)	Up to 29" from bottom
User Interface	FranklinWH App
Warranty[3]	15 years

Power Rated[4]

Nominal Output Power (AC)	5 kW	7.6 kW	9.6 kW	10 kW
Maximum Apparent Power	5 kVA	7.6 kVA	9.6 kVA	11.5 kVA
Maximum Continuous Output Current (Calculated Using Max. Apparent Power)	21 A	32 A	40 A	48 A
Overcurrent Protection Device	30 A	40 A	50 A	60 A
Maximum Continuous Input Power	5 kW	7.6 kW	8 kW	8 kW
Power Factor	±1	±1	±1	±0.87

Off-Grid Specifications[5]

THDU	< 1%
Voltage Regulation Accuracy	±1%
Frequency Accuracy	±0.1 Hz
Max Half-Wave Load Capability	5 kW[2]
Max Peak Output Power	15 kW @ 10 S[2]
Max Transient load capacity	25 kW @ 1 S[2]
Load Imbalance Ratio	100%
Max Load Start Capability	185 A LRA[2]

1. At beginning of life: 3 kW charge/discharge power, 77° F (25° C).
2. This value applies to a rated 11.5 kVA.
3. For more details, please refer to the FranklinWH System Limited Warranty for End Users available in the Documentation Center on the FranklinWH website.
4. The PCS derate feature applies to both charging and discharging rates.
5. Output performance is designed with reference to IEC 62040-3 (Uninterruptible Power Systems – Part 3: Method of specifying the performance and test requirements). A number of core indicators meet the requirements of high-performance UPS.

For aPower connection, use ONLY copper conductors, rated to a minimum of 194° F (90° C).

COMPLIANCE INFORMATION

Certifications	UL 9540, UL 9540A, UL 1973, UL 1741, UL1741 SB, UL 1741 PCS, UL 1741 CRD, UL 1741 Multimode, UL 60730-1, UL 3141, IEEE 1547, IEEE 1547.1, UN 38.3, CSA C22.2 No. 107.1:16
Seismic	AC 156, OSHPD, IEEE 693-2005 (high)
Environmental	California Proposition 65 RoHS Directive 2011 / EU
Emissions	FCC Part 15 Class B, ICES 003

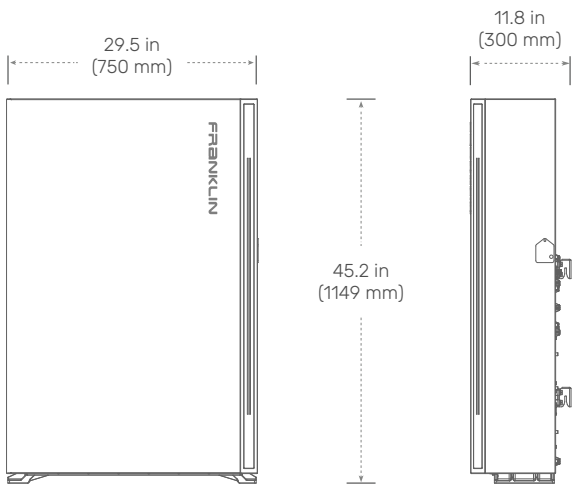
ENVIRONMENTAL SPECIFICATIONS

Enclosure Type	Type 3R
Ingress Protection	IP56 (Wiring) IP67 (Battery Pack & Inverter)
Operating Temperature	-4 °F to 122 °F (-20 °C to 50 °C) Operates up to 131 °F (55 °C) at 5 kW derated output
Operating Humidity (RH)	Up to 100% RH, condensing
Altitude	Maximum 9,843 ft (3,000 m)
Environment	Indoor / outdoor

MECHANICAL SPECIFICATIONS

Dimensions (H × W × D)	45.2 in × 29.5 in × 11.8 in (1149 mm × 750 mm × 300 mm)
Weight, aPower 2 Complete	357 lb. (162 kg)
Weight, without Cover	335 lb. (152 kg)
Weight, Cover	22 lb. (10 kg)
Mounting	Wall or floor mount
Cooling	Natural

The aPower 2 (SKU: APR-10K15V2-US) is available in the United States and Canada. For product availability in other regions, please visit our official website or contact a local authorized dealer.



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