FRANKLINWH

aPower 2 AC-coupled battery

Store solar generated power while the sun is shining. Store grid energy during lower rate periods. Use the stored energy when needed to lower electric bills. Run heavy loads such as air conditioners and water heaters as usual even during grid outages. Provide homeowner peace of mind by fully charging before severe weather events. The aPower 2 also supports parallel AC-coupled connection with 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.

✓ 10 kW continuous / 15 kW peak for 10s

✓ 8 kW charge power

- Safer LFP battery cell chemistry 15 kWh AC¹ 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 | Power 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 |
| Real Power (charge) | 8 kW continuous (on-grid/off-grid) |
| Real Power (Discharge) | 10 kW / 11.5 kVA continuous (on-grid/off-grid) |
| Nominal AC Voltage | 120 / 240 V, 120 / 208 V (single phase), 60 Hz |
| Grid Voltage Range | 211 ~ 264 Vac; 183 V ~ 228 Vac |
| Coupling | AC-Coupled |
| Phase | 2 W+N+PE |
| Round Trip Efficiency (Grid – Battery – Load) | 90% ¹ |
| Maximum Short-Circuit Current Rat | ing 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 the aPower 2 base |
| User Interface | FranklinWH App |
| Warranty ² | 15 years |

Grid-Tied Specifications

| • | | | | |
|-----------------------------------|-------|---------|---------|----------|
| 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 Current | 21 A | 32 A | 40 A | 48 A |
| Overcurrent Protection Device | 30 A | 40 A | 50 A | 60 A |
| Programmable Power Factor Setting | | | | 0 ~ ±1 |

Off-Grid Specifications³

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

1. At beginning of life: 3 kW charge/discharge power, 77° F (25° C).

2. For more details, please refer to the FranklinWH System Limited Warranty for End Users available in the Documentation Center on the FranklinWH website.

 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.



COMPLIANCE INFORMATION

| Certifications | UL 9540, UL 9540A, UL 1973, UL 1741, UL1741 SB, UL 1741 PCS, UL 1741 Multimode, UL 60730-1, 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 |

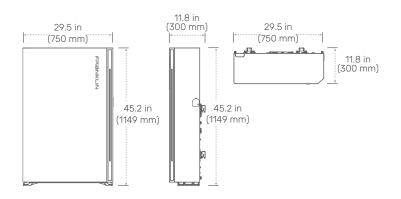
ENVIRONMENTAL SPECIFICATIONS

| 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 5kW derated output |
| Operating Humidity (RH) | Up to 100% RH, condensing |
| Altitude | Maximum 9,843 ft (3,000 m) |
| Environment | Indoor and outdoor rated |

MECHANICAL SPECIFICATIONS

| Dimensions ($H \times W \times D$) | 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 air-cooled design |

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.



Address: 1731 Technology Dr., Suite 530 San Jose, CA 95110 Telephone: +1888-837-2655 Email: info@franklinwh.com Website: www.franklinwh.com Copyright 2025 FranklinWH Energy Storage Inc. All rights reserved. The Franklin logo, FranklinWH, and other trademarks or service names are the trademarks of FranklinWH Energy Storage Inc. The document is for informational purposes only, data subject to change. 2025-08-08

