



aPower S

The Ultimate Simplified Solar and Storage Solution for New Installations

aPower S delivers a unified energy ecosystem with unmatched efficiency, higher return on investment (ROI), and lower lifetime costs compared to conventional systems. Its fully integrated design enables direct solar connection, maximizing solar energy capture, storage, and utilization.



Direct Solar Connection

- 20 kW direct solar input
- 4 MPPTs adapt to complex solar setups



Fast Setup

- Simplified installation
- AI commissioning as fast as 3 mins



Stronger Load-handling

- 11.5 kW continuous output with PV
- 185 A LRA



Greater Capacity

- 15 kWh per unit
- Up to 225 kWh (15 units) per aGate



Reliable Backup

- Zero Interruption
- UPS-level power quality



Flexible Expansion

- Compatible with V2L or generators
- Compatible with previous aPower models



FranklinWH was born of innovation, a rebellious nature to challenge the what should be and take on the what could be. Did you know Benjamin Franklin discovered and coined the idea of "the Battery?"

← Find out more here

🌐 www.franklinwh.com

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Overview

Battery Chemistry	Lithium Iron Phosphate (LFP)
Usable System Energy	15 kWh per unit, up to 225 kWh (15 units) per aGate
Warranty	15 years or 60 MWH throughput
Output Power	11.5 kW continuous / 15 kW peak for 10 seconds
Load Start Capability	185 A LRA
MPPTs	Four built-in MPPTs with 15 A per MPPT
Maximum Solar STC Input	20 kW
Round Trip Efficiency (Grid – Battery – Load)	90.5%
Coupling	Hybrid-Coupled, DC-Coupled PV input, AC-Coupled with the FranklinWH System

Performance

Real Power (Charge)	8 kW continuous (on-grid/off-grid)
Real Power (Discharge)	11.5 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
Maximum Short-Circuit Current Rating	10 kA
Noise Emission	30 dBA Typical , 45 dBA Maximum
Flood Resistance (IP67)	Up to 29" from the aPower S base

Compliance Information

Certifications	UL9540; UL9540A; UL1973; UL1741; UL1741 SB; UL1741 PCS; UL 1741 Multimode; UL 1741 CRD; UL 3141; UL1699B; UL1998; UN38.3; IEEE 1547; IEEE 1547.1; CSA 22.2 No.107.1;
Seismic	AC 156, OSHPD, IEEE 693-2005 (high)
Environmental	California Proposition 65
Emissions	FCC Part 15 Class B, ICES 003

Mechanical Specifications

Dimensions (H x W x D)	45.2 in x 29.5 in x 11.8 in (1149 mm x 750 mm x 300 mm)
Weight, aPower S complete	388 lbs (176 kg)
Weight, without Cover	365 lbs (166 kg)
Mounting	Wall or floor mount
Cooling	Natural air-cooled design

Environmental Specification

Enclosure Type	Type 3R
Ingress Protection	IP55 (Wiring) IP67 (Battery Pack & Inverter)
Operating Temperature	-4 °F to 122 °F (-20 °C to 50 °C) Operates up to 131 °F (55 °C) derated output
Operating Humidity (RH)	Up to 100% RH, condensing
Altitude	Maximum 9,843 ft (3,000 m)
Environment	Indoor and outdoor rated