FRANKLINWH

aHub

FranklinWH System Expansion unit to expand energy and load management

Within the FranklinWH System, the aHub enhances home energy distribution by supporting multiple energy inputs and household load integration. Managed by the FranklinWH aGate or Meter Adapter Controller, it enables advanced energy dispatch strategies and intelligent resource management.

✓ Adaptable interface, robust integration
✓ Solar retrofit-friendly
✓ Smart Circuits

✓ Unified management
✓ 15-year warranty

Solar Optimization

Accommodates up to three AC-coupled PV arrays with 24 kW total capacity, maximizing renewable energy utilization for Net Energy Metering (NEM) applications and retrofit installations.

Generator Compatibility

Each aHub supports 240 V standby and portable generators connections for enhanced backup during prolonged outages.

Smart Circuits Management

Configurable circuit architecture supports up to 4×240 V or 8×120 V circuits with programmable scheduling and remote control via the FranklinWH App, enabling customized energy consumption patterns.
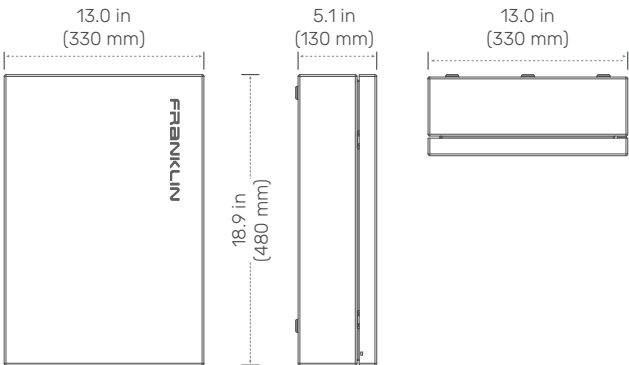
Vehicle-to-Load (V2L) Compatibility

Leverages electric vehicles with V2L capability as alternative power sources for enhanced flexibility.

PERFORMANCE SPECIFICATIONS

Name	aHub
SKU	ACCY-AHUBV1-US
Nameplate Model	aHub-20-04
Certification Name	aHub-yy-yy
Nominal AC Voltage	120 / 208 Vac, 120 / 240 Vac, 60 Hz
Port 1	Smart Circuit
Port 2	PV/Smart Circuit
Port 3	PV/ Smart Circuit
Port 4	Generator/V2L/PV/Smart Circuit
O.C. Upstream Protection Device Max	125 A max
Over Current Protection Device Max	Port 1: 60 A Port 2: 60 A Port 3: 60 A Port 4: 100 A
Maximum Continuous Current	Main Port: 100 A Port 1: 48 A Port 2: 48 A Port 3: 48 A Port 4: 80 A
Maximum Short-Circuit Current Rating	10 kA
Communications	CAN, RS485*
User Interface	FranklinWH App
Warranty	15-year
IEC Protective Class	Class I
Over Voltage Category	OVC III

MECHANICAL SPECIFICATIONS

Dimensions (H × W × D)	18.9 in x 13.0 in x 5.1 in 480 mm x 330 mm x 130 mm
Weight	14 lbs (6.5 kg)
Mounting	Wall mount

13.0 in (330 mm)   5.1 in (130 mm)   13.0 in (330 mm)

18.9 in (480 mm)

* RS485 communications is used for connecting long-distance solar systems. Please refer to the installation manual for usage instructions.

COMPLIANCE INFORMATION

Compliance	UL 1741, UL 1741 PCS, UL3141 CSA C22.2 No. 107.1-16
Environment	California Proposition 65, RoHS Directive 2011 / EU
Emissions	FCC PART15 CLASS B

COMPATIBILITY: The aHub is compatible with the Meter Adapter Controller, aGate 1.3, aGate 1.3.1 controllers with aPower 2, aPower S battery units.

ENVIRONMENTAL SPECIFICATIONS

Enclosure Type	NEMA Type 3R
Operating Temperature	–4° F to 122° F (–20° C to 50° C)
Storage Temperature Range	–22° F to 140° F (–30° C to 60° C)
Operating Humidity (RH)	Up to 100% RH, condensing
Altitude	Maximum 9,843 ft (3,000 m)
Environment	Indoor and outdoor rated

Meter Adapter Controller

aPower 2

FranklinWH App Utility Grid MSA Load Center aHub (Optional) Solar Inverter Solar Panels

Backup Loads Backup Loads Generator V2L

Meter Adapter Controller

aPower S

Solar Panels

FranklinWH App Utility Grid MSA Load Center aHub (Optional) Solar Inverter Solar Panels

Backup Loads Backup Loads Generator V2L

WWW.FRANKLINWH.COM

FRANKLINWH