



## AFCC

### Andrew Fuel Cell Cabinet

#### Dimensions

Depth	1321.0 mm		52.0 in
Height	1600.0 mm		63.0 in
Width	1143.0 mm		45.0 in
Weight, one fuel cell	498.95 kg		1100.00 lb
Weight, two fuel cells	635.03 kg		1400.00 lb

#### General Specifications

Access	Front door   Rear door   Side door
Alarm Interface	Ethernet RJ45   USB   Wire-wrap pins
Alarm Output	Dry contacts   LEDs (visual)   SNMP
Batteries Supported	2
Batteries Supported, with optional battery pedestal	0   No optional battery pedestal
Cabinet Type	Fuel cell cabinet
Cooling Options	Deionized water $\geq 200 \text{ K}\Omega\text{cm}$

#### Electrical Specifications

Output Current at Voltage	0–150 A @ -48 Vdc, one fuel cell   0–300 A @ -48 Vdc, two fuel cells
Output Power, one fuel cell	8 kW
Output Power, two fuel cells	16 kW
Peak Operating Efficiency	55 %
Voltage	-48 Vdc
Voltage Range	-42 Vdc to +60 Vdc (adjustable)

#### Battery Compartment Dimensions

Depth	838.20 mm		33.00 in
Height	320.04 mm		12.60 in
Width	711.20 mm		28.00 in

#### Battery Dimensions

Depth	559.00 mm		22.01 in
Height	320.00 mm		12.60 in
Width	123.00 mm		4.84 in

AFCC

## Mechanical Specifications

Air Consumption, per fuel Cell, maximum	1000 SLPM
Fuel Consumption, per fuel cell, maximum	115 SLPM
Fuel Supply Pressure, maximum	700 kPa
Fuel Supply Pressure, minimum	500 kPa
Gaseous Hydrogen Purity, minimum	99.99 %
Mount Type	Earth anchor   Pad
Noise Emission, maximum	65 dBA @ 1.5 m
Water Emission, maximum	108 mL/min

## Environmental Specifications

Operating Altitude	-60 m to +1829 m (-147 ft to +6000 ft)
Operating Temperature	-40 °C to +46 °C (-40 °F to +115 °F)
Qualification Standards	Telcordia GR-1089   Telcordia GR-487, Zone 4   Telcordia GR-63   UL/ETL Type 3R
Relative Humidity	Up to 95%, non-condensing

## Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system