

The PureMotion® Model 120 Fuel Cell Power System from UTC Power, is a super-efficient, quiet and emission-free transportation fuel cell system. The Model 120 power system is based on Proton Exchange Membrane (PEM) technology, and maximizes the benefits of fuel cells by employing a compact, ambient pressure, hydrogen fuel cell system. Using ambient pressure technology, the PureMotion® Model 120 power system delivers double the fuel economy of a standard diesel-powered engine.

Ideally sized for transit vehicles, the PureMotion® Model 120 power system generates up to 120 kW of net power. The modular design is intended to maximize uptime and simplify routine maintenance. The Model 120 power system is particularly well-suited for integration into hybrid vehicle applications.

UTC Power has demonstrated world-class performance in fuel cell durability with the fleet leader achieving over 10,000 hours of operation without a fuel cell failure or need for a stack replacement.

Performance Characteristics

Power

Power output 120 kW net

Transient Capability

Transient capability 24 kW/sec

Efficiency

Electrical > 46% at 120 kW

Temperature

Ambient storage temperature -20°C to 70°C (-40°F to 150°F)
Operational ambient temperature -25°C to 49°C (-13°F to 120°F)

Emissions

Emissions Water vapor

Customer Interfaces

Fuel type Gaseous H2 (99.95% purity)
Cooling Water ethylene glycol cooled
Electrical input < 2 kW at 24 VDC
High voltage output 290 to 580 VDC

Other

Noise < 70 dB @ 1.23 m

Benefits

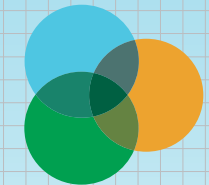
Zero emissions
Few moving parts
2X diesel fuel efficiency
Low noise

Environmentally friendly
High reliability
Simple integration



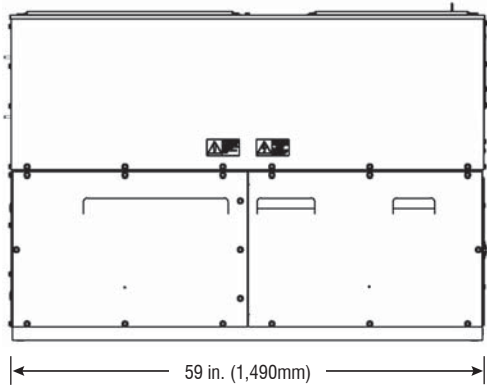
PureMotion®

energy
Reinvented

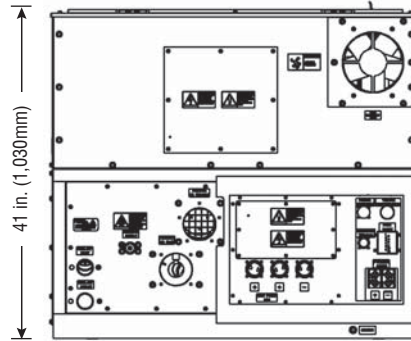


Physical Characteristics

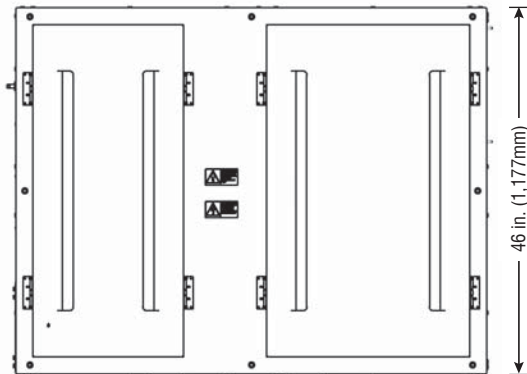
● Power Module



Front View



Side View



Top View



● Shipping Dimensions

Length:	46 in. (1,177mm)
Width:	59 in. (1,490mm)
Height:	41 in. (1,030mm)
Weight:	1,984 lb (900kg)

The manufacturer reserves the right to change or modify, without notice, the design or equipment specifications without incurring any obligation either with respect to equipment previously sold or in the process of construction. The manufacturer does not warrant the data on this document. Warranted specifications are documented separately.

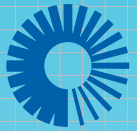


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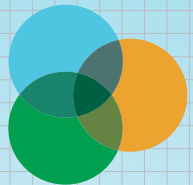
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MODEL 120
PureMotion® System