

The Alteryg *Freedom Power*[™] FCM-5

Backing you up, when and where you need it most.

Changing the way essential operations get their backup power.

The Alteryg *Freedom Power* FCM-5, a fuel cell power system, delivers reliable, on-demand backup power for critical functions in telecommunications, data centers, acute medical care, utilities, homeland security and other essential 24/7 operations.

An excellent alternative to batteries and generators, the FCM-5's rugged, highly efficient and modular 5-kilowatt design that stands alone or combines with the FCM-1 to produce a wide output range (1kW-30kW) in a small footprint.

This innovative PEM-based system gives you the power you need, when and where you need it most.



The Alteryg *Freedom Power* FCM-5 System

The Alteryg *Freedom Power* FCM-5 provides seamless backup power that is:

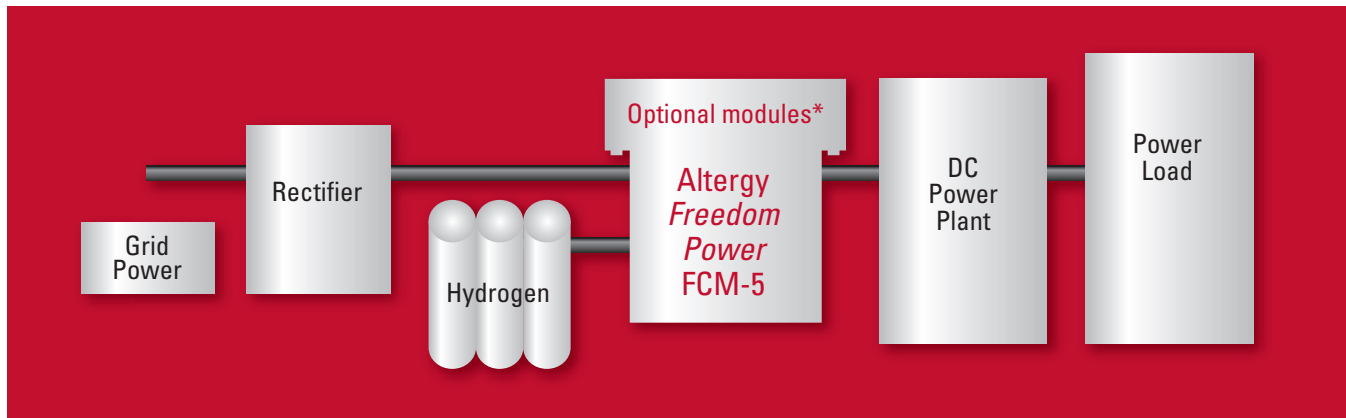
- Dependable and rugged
- Easy to maintain, simple to install
- Compact skid-mount or rack-mount, with optional enclosure
- Reliable for extended runtimes
- Scalable and modular
- AC/DC power capable
- Remotely monitored and controlled
- Quiet, environmentally-friendly



Product Information

The Alteryg *Freedom Power* FCM-5

Functional Diagram



SPECIFICATIONS		FCM-5 Rack-mount	FCM-5 in Enclosure
Physical	Dimensions (w x d x h)	19" x 28" x 21" 48.3 cm x 71.1 cm x 53.3 cm	Modular configurations up to 30,000W
	Weight	158 lbs / 71.7 kg	
	Mounting	19" rack mount	
Performance	Rated net power	0 - 5,000W	
	Max. power overload (30s)	6,250W	
	Rated net current	0A - 100A @ -48VDC	
	Operating voltage (nominal)	-48 VDC	
	Operating voltage (range)	-22VDC to -58VDC	
Fuel	Gaseous hydrogen	Standard industrial (99.95%)	
	Supply pressure	15 to 100 psig	
	Consumption	75 slpm @ 5,000W	
Operation	Ambient temperature	32°F to 104°F / 0°C to 40°C	-40°F to 115°F / -40°C to 46°C
	Relative humidity	0% to 95%, non-condensing	
	Location	Indoor	Outdoor with conditioning
Sensors	Fuel leak detection	Included	
Monitoring / Control¹	Remote	System and fuel status	
	Communications	RS232, Ethernet / IP	

¹ Optional module. Other optional modules include a power distribution module (PDM) for multiple FCM-5 units, a transient power module (TPM) for start-up and bridge power, and a power conversion module (PCM) to convert DC power to AC power. Optional modules are configured to meet the needs of the customer's specific application.

Specifications subject to change without notice.



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