

3UP POWER SYSTEM

3UP PORTABLE POWER FUEL CELL SYSTEM

The UltraCell 3UP Portable Power Fuel Cell System provides a modular and scalable approach to lightweight man-portable power generation and field battery charging requirements. The system enables 2 to 4 XX25 or XX55 fuel cells to be configured into a single power source providing 75 to 220 watts continuous power. The 3UP System includes a power manager/fuel cell director combined with an innovative molle based nylon carriage system to integrate all fuel cell components and fuel. Power scavenger accessories are available and hybrid-battery capability enables peak short term power of up to 250 watts. The power manager provides for simultaneous smart battery charging of up to 4 batteries and power output to multiple electronic applications at independent voltages. The system is rapidly reconfigurable to various fuel tank sizes and power levels, enabling end-users to carry only the power and energy required for the mission.

Power System with Qty 4 XX55 Fuel Cells

- 13,750 Watt Hours 220 watts continuous power.
- 5 Gallon XRT-1000 fuel tank providing 62hrs of operation.



Power System with Qty 3 XX25 Fuel Cells

- 2,750 Watt Hours at 75 watts continuous power.
- 1 Gallon XRT-200 fuel tank providing 36hrs of operation.

FEATURES AND BENEFITS

- ❖ Portable - Compact Mil-Spec ruggedized configuration
- ❖ Safe for indoor and in-vehicle use: Emissions meet OSHA standards
- ❖ Simplifies logistics: Smart sequential charging of ruggedized military batteries.
- ❖ Industry-leading performance: Operates at high-altitude and cold temperatures
- ❖ Operates anywhere: Quiet, rugged design for jungle, desert, and arctic environments
- ❖ Compatible with Toughbook Laptops, sensors, and other portable power requirements.
- ❖ Long runtime re-fillable fuel tank (One-Gallon at 2,750 & Five Gallon at 13,750 Whr Options)
- ❖ Unique hybrid battery system: Delivering up to 85 watts supplemental peak power to fuel cell output.

3UP POWER SYSTEM SPECIFICATIONS

SYSTEM FEATURES

- ❖ Fuel Cell Multi-Function Battery Charging using up to qty 4 Fuel Cells with a Hybrid battery for a total available continuous power of 220 watts and maximum peak power of 250 watts.
- ❖ Battery Charging for up to 3 Li-80/145 or BB25XX batteries.
- ❖ Rapidly reconfigurable, modular, and scalable with different fuel cells and fuel tank sources.
- ❖ Runtime Unlimited - Dependent upon fuel supply
- ❖ Using either XX25 or XX55 Fuel Cells

CONTROL DIRECTOR FEATURES

- ❖ Custom Ruggedized Enclosure
- ❖ Screen Off - Color - NVG options
- ❖ Alarm option via GUI (with silent mode default)
- ❖ Custom Full Function Membrane Switch with 2.4" LCD
- ❖ Fuel Cell Error Code Monitoring with Error Restart Audio
- ❖ Full SMBus Communications to all ports (except AUX & VAR)

GENERAL REQUIREMENTS

- ❖ Operating Temperature -4°F to +122°F (-20°C to +50°C)
- ❖ Startup Temperature Minimum -4°F (-20°C)
- ❖ Storage Temperature -40°F to +140°F (-40°C to +60°C)
- ❖ Operating Altitude 0 - 10,000ft
- ❖ Color Military Tan
- ❖ Cables Application tethers included



		WATTS	75	110	165	220	
	FUEL CELL CONFIGURATION		Qty 3 XX25	Qty 2 XX55	Qty 3 XX55	Qty 4 XX55	
Total Configured Weight	With 1 Gallon Fuel Tank		22	22	27	32	LBS
	With 5 Gallon Fuel Tank		55	55	47	63	LBS
Total Weight with no fuel			14	14	19	24	LBS
Operating Time at Full Power	With 1 Gallon Fuel Tank		36	24	16	12	HRS
	With 5 Gallon Fuel Tank		180	120	80	60	HRS
Fuel Tank Options: <ul style="list-style-type: none"> - XRT200 - 1 Gallon Fuel Tank weighing 8lbs and providing 2,750 Watt Hours Capacity - XRT1000 - 5 Gallon Fuel Tank weighing 40lbs and providing 13,750 Watt Hours Capacity 							



UltraCell Corporation
 399 Lindbergh Avenue Livermore, CA 94551 USA
 Tel: (925) 455-9400 Fax: (925) 455-7750
 www.ultracellpower.com sales@ultracellpower.com