

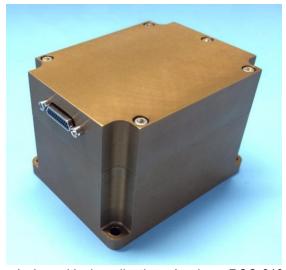
0.74 Ah RECHARGEABLE LITHIUM ION POLYMER

SMART BATTER'

DESIGNED FOR MISSION CRITICAL APPLICATIONS

Invocon, Inc. 0422

The Invocon 28V Rechargeable Smart Battery uses lithium ion polymer battery technology. Lithium ion polymer batteries have one of the highest energy storage and power delivery densities (per weight) of modern batteries. This enables longer operation between charging and dependable operation of high current electrical loads or inrush currents without startup sequencing. Li-poly batteries require contol circuitry to manage the charging and discharging profiles. This circuitry is built into the battery system to make it "smart", allowing for direct replacement of simple older batteries without upgrading to special chargers. The Invocon Smart Battery is designed for mission critical applications. A microprocessor continuously measures key battery parameters and provides this information on communication ports. Operators always know the condition of the batteries at the cell level in order to verify mission readiness. Battery temperature within the pack of cells is monitored using a RTD. Additionally, State of Charge (SOC) is continuously calculated so you always know the condition of the batteries in order to insure sufficient mission power and reliability.



Custom circuitry offers options for uninterruptable power discharge for mission critical applications (such as RCC 319 flight termination systems), or prevent further battery discharge under high temperature, undervoltage, and high current conditions.

<u>Electrical</u>	
Battery Chemistry	Lithium Ion Polymer
Maximum Capacity @ 1C discharge	0.74 Ah
Discharge voltage range	33.6 – 22.4 VDC
Charging voltage	35 - 38 VDC (at up to 2C)
Continuous discharge current	7 Amps
Connector	Micro D, 21-pin (PN: MWDM2L-21PCBRR4T)
Communications Interface	Ethernet or RS-422 (configured in production)
Data	Battery & cell voltages, charge/discharge current, state of charge, pack & PCB temperature, overvoltage and under-voltage alarms.
<u>Mechanical</u>	
Size (L x W x H)	3.33 x 2.58 x 2.28 inches
Weight	1.0 pound
Case material	Magnesium Alloy AZ31B-H24, Dichromate coating (6061 Aluminum option available)
<u>Environmental</u>	
Operating Temperature	-20° to 70° C
Charge Temperature	0° to 45° C
Storage Temperature	-20° to 70° C
Shelf Life - low power mode	5 years

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