



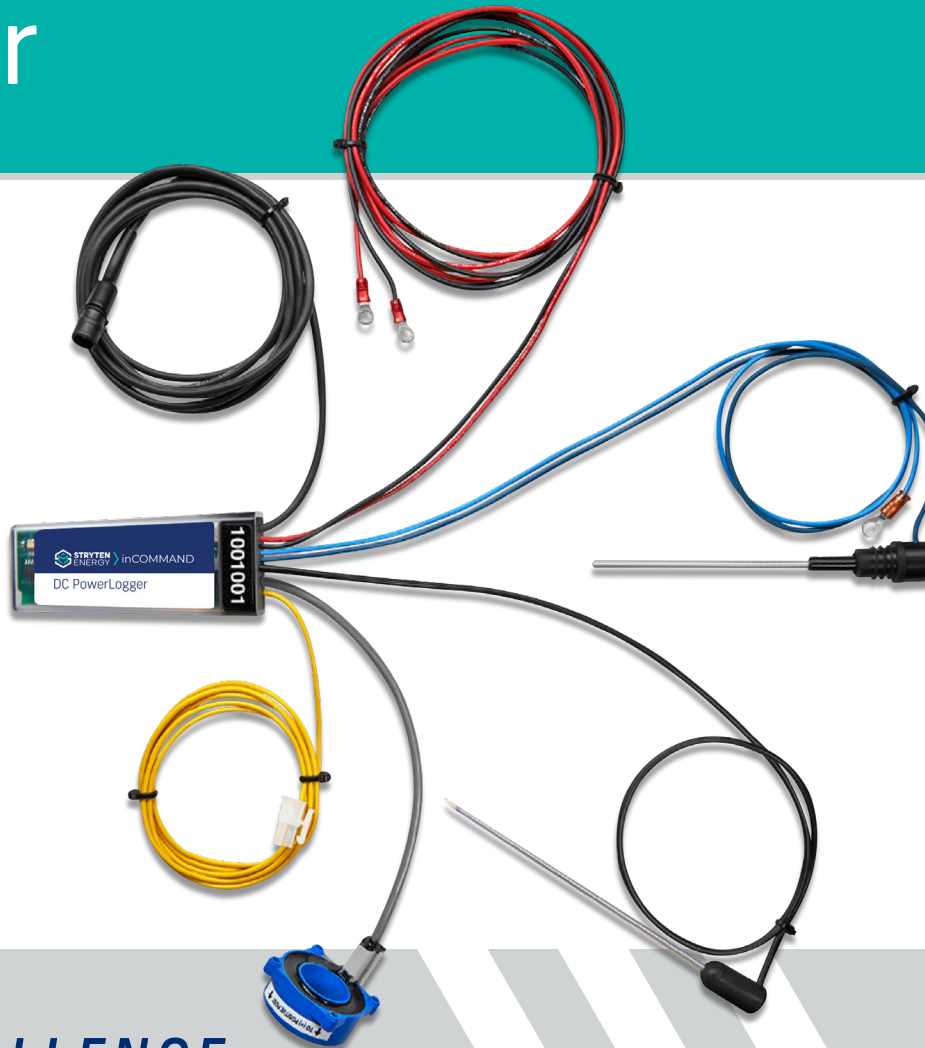
# STRYTEN ENERGY

## M-SERIES

# inCOMMAND

## PowerLogger

Stryten Energy's PowerLogger is a lead battery sensor that interfaces with the M-Series X-3 and X-7 smart chargers and Stryten Energy inCOMMAND™ to create a closed-loop communication channel between the battery and charger to enable opportunity and fast-charging. Data transfer can be wired or wireless, allowing maximum flexibility for motive power system design. With plenty of onboard memory, the PowerLogger can store up to two years' worth of actionable data to provide a complete picture of your batteries' performance history and remaining life.



**THE ENERGY TO CHALLENGE** 

## Gather Data on Four Key Values

 <b>TEMPERATURE</b>	 <b>CURRENT</b>	 <b>VOLTAGE</b>	 <b>ELECTROLYTE LEVEL</b>
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These variables are reported to inCOMMAND via Stryten Energy's Gateway and can be used to infer state-of-charge, enabling users to make decisions and adjustments. PowerLoggers can

be used with Stryten Energy or competitors' flooded lead batteries. It comes in multiple configurations depending on which sensors you need.


<b>FEATURES</b>	<b>Current Monitoring</b>	<b>Temperature Monitoring</b>	<b>Electrolyte Monitoring</b>	<b>Charger Connection</b>
	Standard hall effect sensor	Standard internal sensor, optional external thermistor	Optional electrolyte sensor	Optional RS232 or PLC and Bluetooth

Standard Specifications			
Nominal Battery Voltage	24v-80v	Data Collection	Upload data to PC or Gateway via Bluetooth
Operating Voltage	12v-110v	Data Storage	8000 event log records
Operating Temperature	-20° C to 70° C (-4° F to 158° F)	Wireless Range	Up to 100m (328ft) unobstructed
Bi-Directional Current Measurement	Allows for throughput data collection using a Hall effect sensor which can measure +/- 600a, accurate to +/- 1.5%.	Power Consumption	1 Watt
Voltage Measurement	Continuous monitoring of overall battery voltage, accurate to +/- 0.1v. Can be installed on truck or battery.	Protection	Over voltage; Reverse Polarity Protection
Temperature	With optional temperature sensor, accurate to +/- 2° C (3° F)	Packaging	Waterproof and acid resistant; flame retardant to UL 94V-2
Interface	Bluetooth® communication interface	Dimensions W x D x H (mm)	101.6 mm x 43.2 mm x 25 mm (4.0 in x 1.7 in x 1.0 in)
Real Time Clock	Time keeping and stamping of data	Certifications	UL; cUL





## The Energy to Challenge

Stryten Energy helps solve the world's most pressing energy challenges with a broad range of energy storage solutions and components across the Essential Power, Motive Power, Transportation, Military and Government sectors. Headquartered in Alpharetta, Georgia, we partner with some of the world's most recognized companies to meet the growing demand for reliable and sustainable energy storage capacity. Stryten powers everything from submarines to subcompacts, microgrids, warehouses, distribution centers, cars, trains and trucks. Our stored energy technologies include advanced lead, lithium and vanadium redox flow batteries, intelligent chargers and energy performance management software that keep people on the move and supply chains running.

Learn more at [www.stryten.com](http://www.stryten.com)



Design and deploy web-connected battery and charger solutions to optimize and deliver superior performance with this energy management software tool.

 MEASURE	 MODEL	 MANAGE	 MONITOR
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