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uModule Battery Chargers with Active Current Limit Deliver 2A from up to 32_{VIN}

MILPITAS, CA – October 4, 2010 – Linear Technology announces the immediate availability of the LTM8061 and LTM8062, the first devices in a new family of complete system-in-a-package uModule® chargers, supporting an output charge current up to 2A. Both parts provide a complete, efficient 1MHz switching step-down charger solution with as few as just one input capacitor. The LTM8061 features active input-current management to protect against supply rail droop, while providing maximum charge current to the load. The LTM8062 actively manages the output charge current to maximize the power sourced from a solar cell following Maximum Peak Power Tracking (MPPT) principles. The LTM8061 and LTM8062 operate from an input voltage range of 4.95V to 32V with support for preconditioning, constant-current and constant-voltage mode operation. A 0.5% and 0.75% accurate float voltage respectively ensures maximum energy storage at charge termination set by a minimum current threshold detection or adjustable internal timeout.

The LTM8061 is specifically targeted for charging Li-Ion or Li-polymer batteries with float voltages of 4.1V, 4.2V, 8.2V and 8.4V. An externally adjustable float voltage allows the LTM8062 to support charging of single-and multi-cell Li-Ion, Li-polymer, Lithium iron phosphate (LiFePO4) and sealed lead acid (SLA) batteries up to 14.4V.

To maintain the battery at full charge, the LTM8061 and LTM8062 automatically initiate a recharge cycle once the battery voltage drops to 2.5% below the float voltage. Safety features include bad-battery detection and NTC resistor input with fault indicator suitable for use with a LED. An internal input reverse voltage blocking diode is available to prevent leakage current from the battery when the power source is not present. Packaged in a RoHS compliant 9mm x 15mm x 4.32mm LGA package, pricing for the LTM8061 and LTM8062 starts at $8.85 each and $9.85 each, respectively in 1,000-piece quantities. For more information,visit www.linear.com/8061 and www.linear.com/8062.

Photo Caption: 2A uModule® Battery Chargers

Summary of Features: LTM8061 & LTM8062

- Complete 1MHz System-in-a-Package Step-Down Battery Chargers in 9mm x 15mm x 4.32mm LGA Package
- 4.95V to 32VDC (40V Abs Max) Operating Input Voltage Range
- Adjustable Charge Current up to 2A (LTM8061)
- Precondition, Constant-Current, Constant-Voltage Charging
- Internal Minimum Current or Time-Out Charge Termination
- Fixed 4.1V, 4.2V, 8.2V, 8.4V Battery Float Voltage (LTM8061)
- Adjustable Battery Float Voltage up to 14.4V (LTM8062)

About Linear Technology

Linear Technology Corporation, a manufacturer of high performance linear integrated circuits, was founded in 1981, became a public company in 1986 and joined the S&P 500 index of major public companies in 2000. Linear Technology products include high performance amplifiers, comparators, voltage references, monolithic filters, linear regulators, DC-DC converters, battery chargers, data converters, communications interface circuits, RF signal conditioning circuits, uModule® products, and many other analog functions. Applications for Linear Technology's high performance circuits include telecommunications, cellular telephones, networking products such as optical switches, notebook and desktop computers, computer peripherals, video/multimedia, industrial instrumentation, security monitoring devices, high-end consumer products such as digital cameras and MP3 players, complex medical devices, automotive electronics, factory automation, process control, and military and space systems.

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