



80V Synchronous Four Quadrant DC/DC Controller with Bipolar Output Seamlessly Sources or Sinks up to 5A

MILPITAS, CA – December 10, 2015 – Linear Technology Corporation announces the [LT8714](#), an 80V input synchronous PWM four quadrant output DC/DC controller. This device cleanly transitions the output voltage through zero volts with up to 5A sourcing and sinking current capability, regardless of the output voltage polarity, making it ideal for regulating to positive, negative, or zero volts. The bipolar output enables the LT8714 to source or sink current, regardless of the output voltage polarity. Applications include bidirectional current sources, test systems, high power low frequency signal amplification, back body biasing, thermoelectric coolers (TECs) and electronic window tinting.

The LT8714 operates over a 4.5V to 80V input voltage range and produces an output voltage that is dependent on the choice of external components. This device can operate as a power source and as a load irrespective of the voltage polarity. Its rail-to-rail output current monitor and control enables the device to be configured as a current source. The LT8714 features an innovative EN pin function that enables slowly varying input signals. A voltage on the control pin externally sets the output voltage.

The fixed operating frequency, selectable from 100kHz to 750kHz, can be synchronized to an external clock. The LT8714 incorporates a power good output signal to indicate if the output voltage is above or below its target regulation voltage. Current mode control provides excellent line and load regulation. Additional features include overcurrent protection, undervoltage lockout and soft-start.

The LT8714 is available in a 20-lead TSSOP package, priced starting at \$3.65 each in 1,000-piece quantities. For more information, visit www.linear.com/product/LT8714.

Photo Caption: 80V Synchronous Four Quadrant DC/DC Controller


Summary of Features: LT8714

- Seamless Four Quadrant DC/DC Converter
- Bipolar Output Sources or Sinks Current Regardless if Output is Positive or Negative
- Bidirectional Applications
- Synchronous Rectification
- Wide 4.5V to 80V Input Voltage Range
- Rail-to-Rail Output Current Monitor & Control
- Up to 5A Output Current
- Fixed Operating Frequency from 100kHz to 750kHz
- Synchronizable to an External Clock
- Control Pin Sets Output Voltage
- Forced Continuous or Discontinuous Mode
- 20-Lead TSSOP Package

The USA list pricing shown is for budgetary use only. International prices may differ due to local duties, taxes, fees and exchange rates.

About Linear Technology

Linear Technology Corporation, a member of the S&P 500, has been designing, manufacturing and marketing a broad line of high performance analog integrated circuits for major companies worldwide for over three decades. The Company's products provide an essential bridge between our analog world and the digital electronics in communications, networking, industrial, automotive, computer, medical, instrumentation, consumer, and military and aerospace systems. Linear Technology produces power management, data conversion, signal conditioning, RF and interface ICs, μ Module[®] subsystems, and wireless sensor network products. For more information, visit www.linear.com

 , LT, LTC, LTM, Linear Technology, the Linear logo and μ Module are registered trademarks of Linear Technology Corp. All other trademarks are the property of their respective owners.

Press Contacts:

North America / Worldwide

John Hamburger, Director Marketing
Communications
jhamburger@linear.com
Tel: 408-432-1900 ext 2419

Doug Dickinson, Media Relations Manager
ddickinson@linear.com
Tel: 408-432-1900 ext 2233

UK & Nordic

Alan Timmins
alan@ezwire.com
Tel: +44-1-252-629937