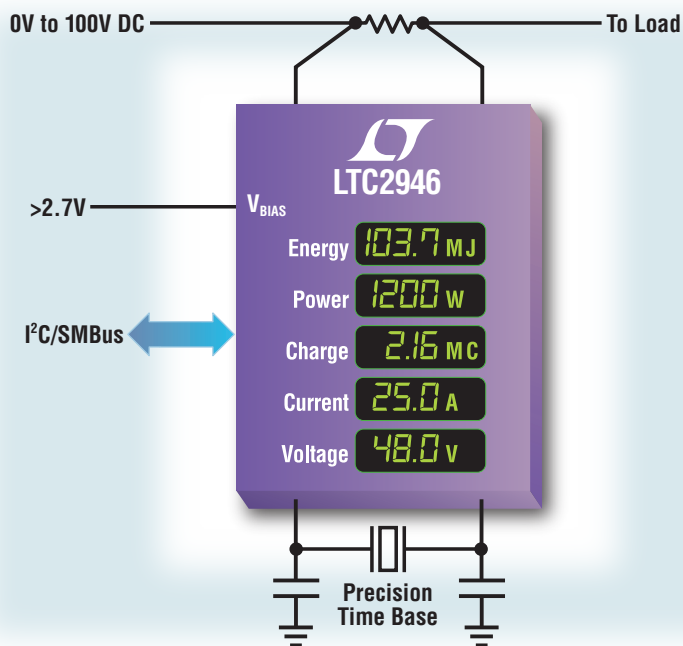


# 1% Accurate Energy Monitor



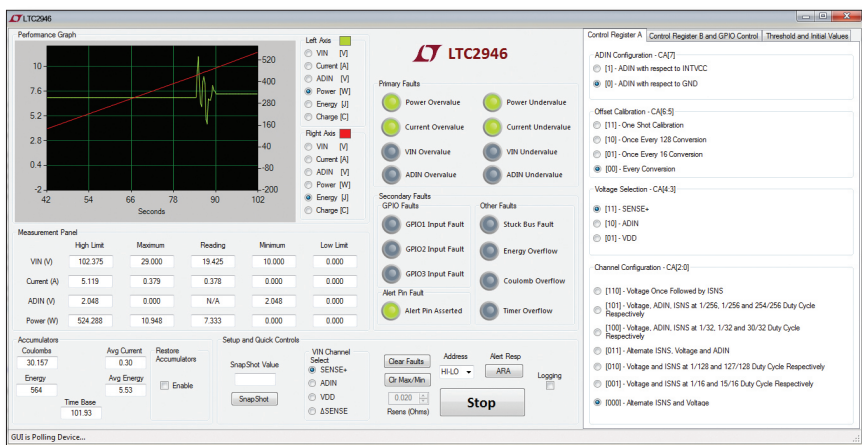
## Measure Board Level DC Power and Energy Easily and Accurately

The LTC<sup>®</sup>2946 makes it easy to accurately monitor all the required parameters to assess and manage your system's energy consumption. DC voltage rails from 0V to 100V can be monitored via high side or low side sensing, independent of the supply voltage. The LTC2946 conveniently stores digital readings, including minimum and maximum values, in I<sup>2</sup>C/SMBus accessible registers. An alert is signaled when readings exceed configurable warning thresholds, relieving the host of repeated polling for data.

### Features

- Monitors DC Supply Voltage, Current, Charge, Power & Energy Use
- 0V to 100V Monitoring Range, >100V with Internal Shunt Regulator
- 12-Bit ADC with Scan/Snapshot Modes
- Guaranteed Accuracy:  $\pm 1\%$  for Power & Energy
- Internal  $\pm 5\%$  or External Time Bases
- Bias Supply Range: 4V to 100V, or 2.7V to 5.9V
- Split SDA Pin Eases Opto-Isolation
- 16-Pin MSOP & 4mm x 3mm DFN Packages

### LTC2946 GUI Screenshot



[www.linear.com/product/LTC2946](http://www.linear.com/product/LTC2946)

1-800-4-LINEAR

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