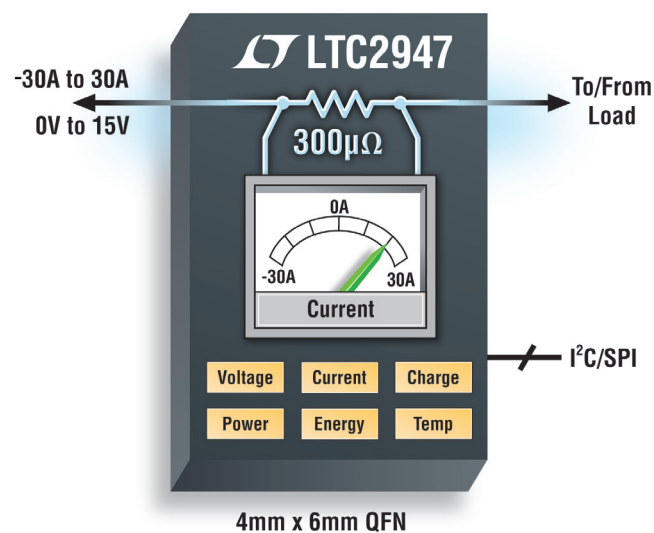


Bidirectional Current/Power/Energy Meter



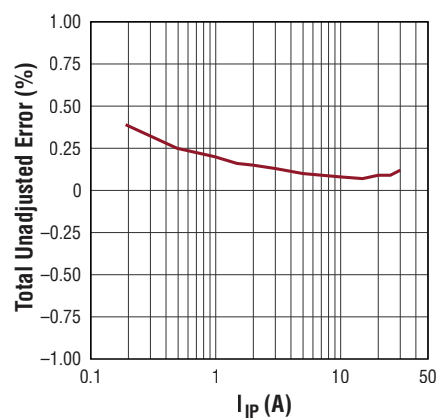
Internal 30A/300µΩ Sense Resistor with 1.0% Current Accuracy

Now it's easy to digitally monitor the parameters required to accurately manage your system's power profile or energy consumption. Current, voltage, power, charge, energy, temperature and time data are available via a simple I²C/SPI interface. The LTC[®]2947 provides accurate true power readings by an instantaneous multiplication of current and voltage measured by separate $\Delta\Sigma$ ADCs. An integrated temperature compensated sense resistor maximizes measurement accuracy over temperature and simplifies space-constrained designs.

▼ Features

- Monitors Current (1.0%), Voltage (0.5%), Power (1.2%), Charge (1.0%), Energy (1.2%), Temperature and Time
- Low Current Offset of 3LSB/9mA
- $\pm 30\text{A}$ Current Range with 300µΩ Internal Sense Resistor
- 0V to 15V Rail-to-Rail Input Range Independent of Supply Voltage
- Instantaneous Multiplication of Voltage and Current
- Internal 1% or External Time Base
- I²C or SPI Configurable Interface
- 32-pin 4mm x 6mm QFN Package

TUE Current Sense ADC vs Current



▼ Info & Free Samples

www.linear.com/product/LTC2947

1-800-4-LINEAR



video.linear.com/7166

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client/project:

Linear Technology STANDARD PAGE
TRIM SIZES :

8" x 10.5" Minimum

8.5 x 11.25" / 216mm x 286mm

Maximum

www.twistcreativepartners.com

job #:

Agency contact: Jon Miwa

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Email: jon@twistcreativepartners.com