

TI Designs Single-phase Energy Measurement Reference Design Guide



TEXAS INSTRUMENTS

TI Designs

TI Designs provide the foundation that you need including methodology, testing and design files to quickly evaluate and customize and system. TI Designs help you accelerate your time to market.

Design Resources

[MSP430AFE253SUBMETEREVM](#) Tool Folder with Design Files



[ASK Our E2E Experts](#)
[WebBench Calculator Tools](#)



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Featured Applications

- Home Appliances
- Server and PC Power Supplies
- UPS
- Smart Plugs or Power Strip
- Solar Energy Inverter
- Electrical Vehicle Charger
- Home Monitoring, Security and Automation

Design Features

- Spy-bi-wire debugging interface
- 14 pin debugger connector allows direct interface to MSP-FET430UIF without the need of an adaptor
- Built-in switching mode power supply capable of supplied by 85 – 265 VAC (47Hz – 63Hz) or 120 – 380 VDC simplifies evaluation setup
- Built-in RS232 external communication interface for reading measurements and performing calibration
- 7 Built-in LEDs for customer debugging and visual monitoring
- Measurement of root mean square voltage, root mean square current, active power, reactive power, apparent power, power factor, AC frequency
- Readings update every 4 AC cycles or 80ms in case of DC input
- Capable of automatic reporting measurements to UART port on every update at 9600bps
- Capable of AC and DC measurement
- Capable of switching between AC and DC measurement mode automatically
- Capable of doing EMI filter capacitor and wire resistance compensation
- No separate DC calibration required

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