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Single-phase Energy Measurement Reference Design Guide



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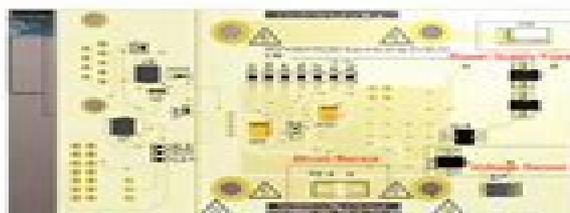
TI Designs provide the foundation that you need including methodology, testing and design files to quickly evaluate and customize and system. TI Designs help you accelerate your time to market.

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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Single Phase Energy Measurement Reference Design Guide

Daniel F McAuley



Single Phase Energy Measurement Reference Design Guide:

T Bytes Hybrid Cloud Infrastructure IT Shades.com,2021-03-03 This document brings together a set of latest data points and publicly available information relevant for Hybrid Cloud Infrastructure Industry We are very excited to share this content and believe that readers will benefit from this periodic publication immensely *Electronic Design* ,1987

Nuclear Science Abstracts ,1971 **ASHRAE Handbook** ,1995 **Publications of the National Electric Light Association.-** ,1923 ASHRAE Handbook & Product Directory American Society of Heating, Refrigerating and Air-Conditioning Engineers,1980 **Proceedings of National Electric Light Association** National Electric Light Association. Convention,1923 **Proceedings** National Electric Light Association,1923 *Energy Research Abstracts* ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **Handbook of Microwave Measurements** Max Sucher,Jerome Fox,Moe Wind,1963 **The Electrical Journal** ,1915 Proceedings of the American Power Conference ,1998 **Industrial Engineering and the Engineering Digest** ,1911 *Selected DOE Headquarters Publications* Energy Library,1981 *The United States Catalog* ,1903 *Engineering Materials and Design* ,1966 Vols for 1968 incorporate E M D product data The Electrician ,1898 **Engineering** ,1925 **Electric Light and Power** ,1940 *Telegraphic Journal and Electrical Review* ,1930

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