



MONOCHIP THREE PHASE BIDIRECTIONAL KILOWATT HOUR METERING IC

FEATURES

- Performs bidirectional energy metering and directly drives a LCD with 7 digits plus announciators
- 4 externally selectable on-chip tariff registers
- An additional total energy register
- Meets the IEC 521/1036 Specification requirements for Class 1 AC Watt hour meters
- Optical interface for electronic reading according to IEC1107 Mode D

DESCRIPTION

The SAMES SA9110A Three Phase bidirectional energy metering integrated circuit has an integrated Liquid Crystal Display (LCD) driver for a 7 digit (7 segment) display as well as 4 multiple tariff registers. The SA9110A performs the active power calculation.

The method of calculation takes the power factor into account.

The measured energy is displayed in kilo Watt hours (kWh). The SA9110A is capable of driving a display having a resolution of 1/10 kWh.

This innovative universal energy metering integrated circuit is ideally suited for energy measurement in three phase systems.

The SA9110A integrated circuit is available in a 68 pin plastic leaded chip carrier (PLCC-68) package type.

- Pulse output for calibration
- Total power consumption rating below 40mW
- Adaptable to different types of current sensors
- Operates over a wide temperature range
- Precision voltage reference on-chip
- Protected against ESD

PIN CONNECTIONS

