



**SINE331-EVR**  
ELECTRONIC VOLTAGE REGULATORS



SINEPOWER's ELECTRONIC VOLTAGE REGULATORS are used in power quality applications where speed and performance advantages make it a better fit than the mechanical voltage regulator.

SINE33 EVR units provide consistent voltage regulation and voltage conditioning with fast correction without regular maintenance or moving parts.



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SINE33 EVR units guarantee protection against voltage fluctuations on the mains or other power sources. With fast voltage regulation, under/over voltage, sags and swells are corrected in <5ms for 10% regulation and 40ms for 20% and 30% regulation. The voltage quality is also improved by sinusoidal shaping.



- **CE Mark Certified** (EN61000-6-4 Electromagnetic compatibility - Generic emission standard; EN61000-6-2 Electromagnetic compatibility - Generic immunity standard; Low Voltage Directive (LVD) 2006/95/EC)
- **State of the art semiconductor technology** (IGBT)
- **High Efficiency** (up to 98% efficiency)
- **User friendly control panel**
- **Data logging**
- **IP54 enclosures** for outdoor use in extreme environmental conditions
- **Low noise emission** (<65dBA@1m)



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### POWER QUALITY

#### INPUT

- State of the art semiconductor technology (IGBT) Rectifier.
- 98% efficiency

#### OUTPUT

- Phase independant Voltage Regulation
- Differential Inverter

#### EFFICIENCY

- Up to 98%
- Green Standby Function losses: 20W
- No load losses: 0.2%

#### PROTECTION AND SAFETY

- Enclosure Protection class up to Ip54
- Over/under voltage at output
- Regulator Overload capability designed for:
  - Power stage 150% - Continuous
  - Magnetics 120% - Continuous
- Regulator Overload protections set at:
  - 125% for 600seconds
  - 150% for 5 seconds
  - 200% for 2 seconds
- Over temperature protection

#### INTERFACE AND COMMUNICATIONS

- RS232

#### OPTIONAL FEATURES

- Current Harmonic Filter
- Communications
  - Monitoring by Web, SNMP and MODBUS TC/IP
  - MODBUS RS485
  - Remote control box

#### NORMS AND STANDARDS

- **EN62040-1-1** General & safety requirement
- **EN61558-2-6** General & safety requirement
- **EN61000-6-4** Electromagnetic compatibility
  - Generic emission standard
- **EN61000-6-2** Electromagnetic compatibility
  - Generic immunity standard



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