

E50B2 Power & Energy Meter - T-VER-E50B2



Measures:

AC Current, AC Voltage, Amp Hour (Ah), Amps (A), Kilowatt Hours (kWh), Kilowatts (kW), Power Factor (PF), Volt-Amp Reactive (VAR), Volt-Amp Reactive Hour (VARh), Volt-Amps (VA), Volts (V), Watt Hours (Wh), Watts (W)

Features:

- Measures Power Factor (PF), Reactive Power (VAR), Watt Hours (Wh) and more.
- Range: 90-600VAC – Wye or Delta configurations
- Accuracy: ANSI 12.20 0.5% accuracy, IEC 62053-22 Class 0.5S
- Compatible with CTs from 5 to 32000A (333mV output)
- Bright backlit LCD
- UL listed, CE, California CSI Solar, ANSI C12.20

Qty	1-4	5-24	25-49	50+
\$US	\$599	\$569	\$539	\$509

Contact Onset at 1-800-564-4377

Description:

Build better [energy](#) efficiency and [power](#) management with the E50B2 Power & Energy Meter. This cost-effective sensor is simple to deploy and can either be installed on standard DIN rail or be surface mounted. The E50B2 integrates with HOBO UX, U30, ZW, H22, and H21 data loggers.

Detailed Specifications:

Measurement Accuracy:

Real Power and Energy	IEC 62053-22 Class 0.5S, ANSI C12.20 0.5%
Reactive Power and Energy	IEC 62053-23 Class 2, 2%
Current	0.4% (+0.015% per °C deviation from 25°C) from 5% to 100% of range; 0.8% (+0.015% per °C deviation from 25°C) from 1% to 5% of range
Voltage	0.4% (+0.015% per °C deviation from 25°C) from 90V (L-N) to 600VAC (LL)
Sample Rate	2520 samples per second
Data Update Rate	1 sec
Type of Measurements	True RMS up to the 21st harmonic 60 Hz, One to three phase AC system

Input Voltage Characteristics:

Measured AC Voltage	Minimum 90VL-N (156VL-L) for stated accuracy UL Maximums: 600VL-L (347VL-N) CE Maximums: 300VL-N (520V L-L)
Metering Over Range	+20%
Impedance	2.5 MÎ© (L-N)/5 MÎ© (L-L)
Frequency Range	45 to 65 Hz

Input Current Characteristics:

CT Scaling	Primary: Adjustable from 5 A to 32,000 A
Measurement Input Range	0 to 0.333VAC or 0 to 1.0VAC (+20% over-range)
Impedance	10.6kÎ© (1/3 V mode) or 32.1kÎ© (1 V mode)

Output:

Alarm Contacts	N.C., static output (30VAC/DC, 100mA max. @ 25°C, derate 0.56mA per °C above 25°C)
Real/Reactive Energy Pulse Contacts	N.O., static output (30VAC/DC, 100mA max. @ 25°C, derate 0.56mA per °C above 25°C)

Mechanical Characteristics:

Weight	0.62 lb (0.28 kg)
IP Degree of Protection (IEC 60529)	IP40 front display; IP20 Meter
Display Characteristics	Back-lit blue LCD
Terminal Block Screw Torque	0.37 ft-lb (0.5 N·m) nominal/0.44 ft-lb (0.6 N·m) max
Terminal Block Wire Size	26 to 14 AWG (0.13 to 2.08 mm ²)
Rail	T35 (35mm) DIN Rail per EN50022

Environmental Conditions:

Operating Temperature	Meter: -30°C to 70°C; Display: 0°C to 50°C
Storage Temperature	Meter: -40°C to 85°C; Display: -10°C to 60°C
Humidity Range	<95% RH (non-condensing)
Altitude of Operation	3 km max.

Metering Category:

North America	CAT III; for distribution systems up to 347 V L-N/600VAC L-L
CE	CAT III; for distribution systems up to 300 V L-N
Dielectric Withstand	Per UL 508, EN61010
Conducted and Radiated Emissions	FCC part 15 Class B, EN55011/EN61000 Class B (residential and light industrial)
Conducted and Radiated Immunity	EN61000 Class A (heavy industrial)

Safety:

North America (cULus)	UL508 (open type device)/CSA 22.2 No. 14-05
Europe (CE)	EN61010-1:2001

HOB0[®] Data Loggers

1-800-LOGGERS