

EASY INSTALLATION AND SETUP



Clips directly onto standard DIN rail

# Compact Power and Energy Meter

The E50 Series DIN Rail Meter combines exceptional performance and easy installation to deliver a cost-effective solution for power monitoring needs. The E50 can be installed on standard DIN rail or surface mounted as needed. All models include pulse output and phase alarms for true versatility in all applications. Multiple additional output options offer flexibility: pulse, Modbus, 4-20mA\*, and 0-5VDC\*.

### APPLICATIONS

- Renewable energy
- Energy management
- Commercial submetering
- Industrial monitoring
- Cost allocation

\* Coming soon!

### A compact solution for panelboard monitoring

- DIN rail mounting option...easy installation
- ANSI 12.20 0.5% accuracy, IEC 62053-22 Class 0.5S...great for cost allocation
- Reactive pulse output and phase loss alarm output on all models...one model for multiple applications
- 90-600 VAC...application versatility with fewer models to stock
- Bright backlit LCD...easy visibility in dark enclosures
- 60 day logging (15 minute interval)...datalogging capability (E50G)\*...safeguard during power failures
- Compatible with CTs from 5A to 32000A...wide range of applications
- User-enabled password protection...protect from tampering
- On-board diagnostics...easy installation and troubleshooting

### SPECIFICATIONS

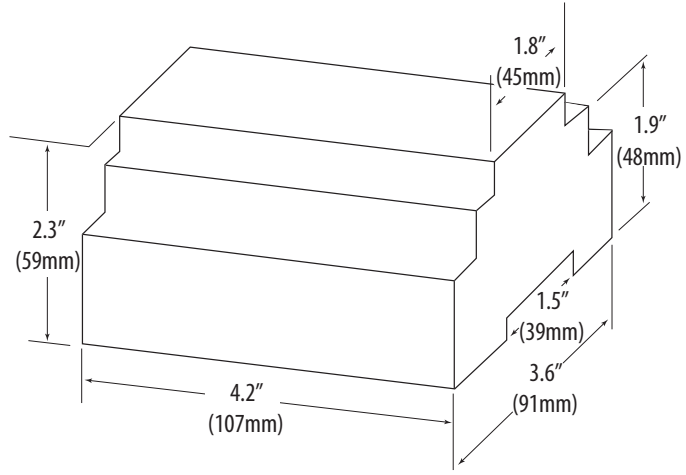
|                                    |   |
|------------------------------------|---|
| <b>Voltage Inputs</b>              | UL: 90V (L-N) to 600V (L-L); CE: 90V (L-N) to 300V (L-N)        |
| <b>Frequency</b>                   | 45-65 Hz  |
| <i>Current Inputs:</i>             |   |
| <b>Scaling</b>                     | 5A to 32,000A   |
| <b>Input Range</b>                 | 0 to 0.333V or 0-1V (selectable)                                |
| <b>Control Power</b>               | UL: 90V (L-N) to 600V (L-L); CE: 90V (L-N) to 300V (L-N)        |
| <i>Measurement Accuracy:</i>       |   |
| <b>Real Power and Energy</b>       | 0.5% (ANSI C12.20; IEC 62053-22 Class 0.5S)                     |
| <i>Environmental:</i>              |   |
| <b>Operating Temperature Range</b> | -30° to 70°C (-22° to 158°F); Display 0° to 50°C (32° to 122°F) |
| <b>Humidity Range</b>              | <95% RH noncondensing   |
| <i>Outputs:</i>                    |   |
| <b>All Models</b>                  | Real Energy Pulse: N.O. static; Alarm contacts: N.C. static     |
| <b>E50B</b>                        | Reactive energy pulse 30VAC/DC                                  |
| <b>E50C, E50G*</b>                 | RS-485 2-wire Modbus RTU  |
| <b>E50D*</b>                       | 4-20mA analog, 9-30VDC supply required                          |
| <b>E50E*</b>                       | 0-5VDC, self-powered  |
| <b>Approvals</b>                   | UL listed, CE   |

For complete specifications, see full Installation Guide at [www.veris.com](http://www.veris.com)

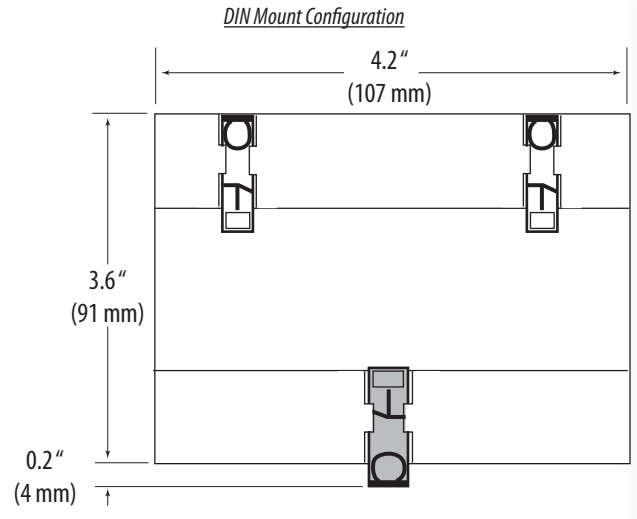
\* Coming soon!



**DIMENSIONAL DRAWING**



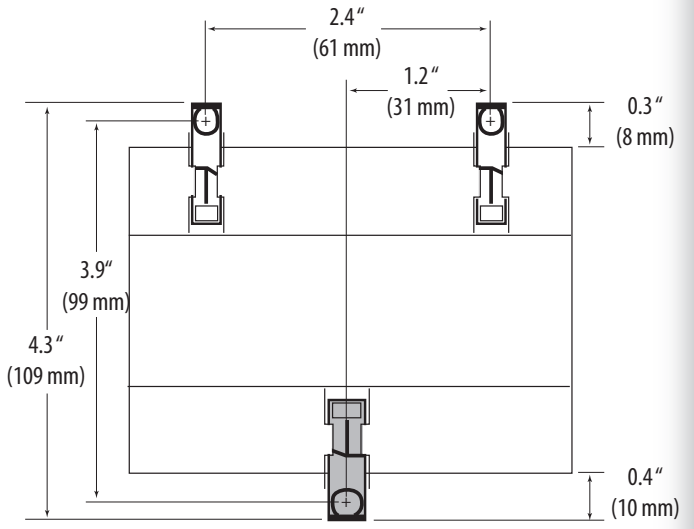
**MOUNTING DIAGRAMS**



**DATA OUTPUTS**

- kW, kWh
- Current: 3-phase average
- Voltage: 3-phase average
- Current: by phase
- Voltage: by phase Line-Line and Line-Neutral
- Power: Real, Reactive, and Apparent; 3-phase total and per phase
- Power Factor: 3-phase average and per phase
- Frequency: Phase A
- Power Demand: Most Recent and Peak
- Demand Configuration: Fixed, Rolling Block, and External Sync

**Wall Mount Configuration**



**ORDERING INFORMATION**



| MODEL  | DESCRIPTION                        | OUTPUT          |        |                |                |
|--------|------------------------------------|-----------------|--------|----------------|----------------|
|        |                                    | Pulse           | RS-485 | 4-20 mA        | 0-5 VDC        |
| E50B1  | Pulse output only                  | ●<br>(2 pulses) |        |                |                |
| E50C2  | Modbus output (FDS)                | ●               | ●      |                |                |
| E50D1* | Analog output                      | ●               |        | ● <sup>1</sup> |                |
| E50E1* | Analog output                      | ●               |        |                | ● <sup>1</sup> |
| E50G1* | Modbus output, 60 day data logging | ●               | ●      |                |                |

**ACCESSORIES**

- NEMA 4 enclosure (pictured at right): AE003
- For DIN Rail Mounting: AV01, AV02
- Fuse Kits: AH02, AH03, AH04
- RS-485 to RS-232 Converter: AH07



<sup>1</sup> E50D and E50E have kW/kWh output. Full data set is visible on the LCD only.  
\* Coming soon!