

Revenue Grade Meter: Veris E51C3

Part of AlsoEnergy's edge-to-cloud platform, the E51C3 Series Meter combines exceptional performance and easy installation to deliver a cost-effective solution for power monitoring applications. The E51 models add a bi-directional monitoring feature designed expressly for clean energy applications, allowing measurement of power imported from the utility grid as well as power exported from the clean energy asset, allowing a facility administrator to track all energy for billing and crediting accuracy.



Meter Features

- ANSI 12.20 0.5% accuracy, IEC 62053-22 Class 0.5S
- Real energy output & phase loss alarm output
- Data logging capability ensures long term data retrieval, safeguards for power failures
- User-enabled password protection
- Bi-directional metering (4-quadrant), an essential solution for solar and other renewable energy applications, measures import, export, and net energy transfer
- E51C3 includes SunSpec compliant common and meter register blocks
- California Solar Initiative (CSI) approved

Measured Parameters

- Power: Real (kW), Reactive (kVAR), and Apparent (kVA)
- Power factor: 3-phase average and per phase
- Present power demand: Real (kW), Reactive (kVAR), and Apparent (kVA)
- Import and export totals of present power demand: Real (kW), Reactive (kVAR), and Apparent (kVA)
- Peak power demand: Real (kW), Reactive (kVAR), and Apparent (kVA)
- Current (3-phase average and per phase)
- Voltage: Line-line and Line-neutral (3-phase average and per phase)
- Frequency
- Accumulated net energy: Real (kWh), Reactive (kVARh), and Apparent (kVAh)
- Reactive energy accumulators by quadrant (3-phase total and per phase)

CT Selection

Compatible with CTs from 5A to 32000A... wide range of service types

Technical Data: AlsoEnergy Part Number: MT-RG-04

INPUTS

Control Power, AC	50/60 Hz; 5VA max.; 90V min.; UL Maximums: 600V L-L (347V L-N); CE Maximums: 300V L-N (520V L-L)
Control Power, DC	3W max.; UL and CE: 125 to 300VDC (external DC current limiting required)
Voltage Input	UL: 90V L-N to 600V L-L; CE: 90V L-N to 300V L-L
Current Input Scaling	5A to 32,000A
Current Input Range	0 to 0.333V or 0 to 1V (selectable)

ACCURACY

Real Power and Energy	0.5% (ANSI C12.20, IEC 62053-22 Class 0.5S)
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OUTPUTS

General	Real Energy Pulse: N.O. static; Alarm contacts: N.C. static
Modbus/RTU	RS-485 2-wire (1200 baud to 38.4 kbaud)

MECHANICAL

Mounting	DIN Rail or 3-point screw mount
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ENVIRONMENTAL (Protected Installation)

Operating Temperature	-40°C to +70°C
Storage Temperature	-40°C to +70°C
Humidity	10 to 90% non-condensing

COMPLIANCE

Operating Temperature	-30° to 70°C (-22° to 158°F)
Storage Temperature	40° to 85°C (-40° to 185°F)
Humidity Range	<95% RH noncondensing
Safety	UL508, EN61010

Dimensions
