

Solar-Log 2050

Commercial Revenue Grade Meter (RGM) Assembly



The Solar-Log 2050 is a revenue grade metering assembly designed for commercial and industrial solar plants. The assembly provides highly accurate solar plant production metering required by many PPAs, financing companies, and performance-based incentive programs (PBI/SREC). When combined with a Solar-Log[®] data logger, the assembly offers performance data from inverter direct monitoring and optional power control.

Packaged in an indoor/outdoor enclosure, the Solar-Log 2050 assembly includes a revenue grade meter, power supply, fusing blocks, shorting blocks, data connection blocks, and a DIN rail for mounting a Solar-Log[®] data logger.

Part number

Solar-Log[®] Commercial Revenue Grade Meter

255857



Use Cases and Advantages

- Revenue grade production metering for commercial and industrial solar plants up to 2MW
- Automatic performance-based incentive reporting when combined with a Solar-Log data loggers and a Solar-Log WEB Enerest™ XL subscription.
- Easy to install, maintain, and operate at a cost effective price-point for commercial and industrial projects
- Meter solar PV yield, building load, or sub-consumption
- Add a Solar-Log® to collect inverter data including alarms and codes
- Add a Solar-Log® to control inverter production, power factor, and grid export
- Revenue grade accuracy for financial contracts (PPAs, etc.), incentive reporting, and Solar Renewable Energy Credit (SREC) monetization
- Add a Solar-Log® to export data over LAN or cellular connection (with a Solar-Log® Cellular Expansion Kit)

Revenue Grade Meter Features

- Better than +/- 0.2% accuracy with appropriate CTs (typical)
- Digital communications via RS485 (MODBUS RTU)
- 5 Amp version available, compatible with any standard 5A CT
- Supports single (split) phase, 3 phase service
- Optional interface for SCADA integration including DNP3 Protocol

Monitoring Features with a Solar-Log® Data Logger and Solar-Log WEB Enerest™ XL

- Inverter direct monitoring compatible with over 100 inverter brands and 2,300 components
- Solar-Log WEB Enerest™ Fleet Management Tools - performance monitoring, error alerts, production forecasting, custom reports, logbook ticketing system and end-user Dashboard
- Solar-Log WEB Enerest™ app available for iOS and Android

Technical Data

Voltage	600 V or 600/347 V 480 V or 480/277 V 208 V or 208/120 V 240 V or 240/120 V
Phases	Single (split) phase, Three Phase, 50 or 60 Hz
Power Supply	120-277 VAC
Fused Input	x4 1A, 250V, or 3A, 500V
Temperature range	-40°C to +60°C
Certifications	ANSI C12.20 Class 0.2 meter
Accuracy	Better than 0.2% of reading (at 25°C, pf>=0.5)
Dimensions	11.81 x 15.75 x 5.12 inch
Weight	Standard Version 8lbs
Enclosure	Fiberglass reinforced polycarbonate Indoor/Outdoor IP-67 Non-fading
Part number	840850

Common Components (Sold Separately)

Part number

Solar-Log® Cellular Expansion Kit	820100
Solar-Log 50	256200
Solar-Log Base 100	256326
Solar-Log Base 2000	256327
Solar-Log® Revenue Grade Split Core CT - 0.75"- up to 200A	806311
Solar-Log® Revenue Grade Split Core CT - 1.25"- up to 600A	806312
Solar-Log® Revenue Grade Split Core CT - 2" x 3"- up to 1500A	806313
Solar-Log® Revenue Grade Split Core CT - 3" x 5"- up to 2000A	806314

Note: Additional accessories are available including custom-order CT sizes.