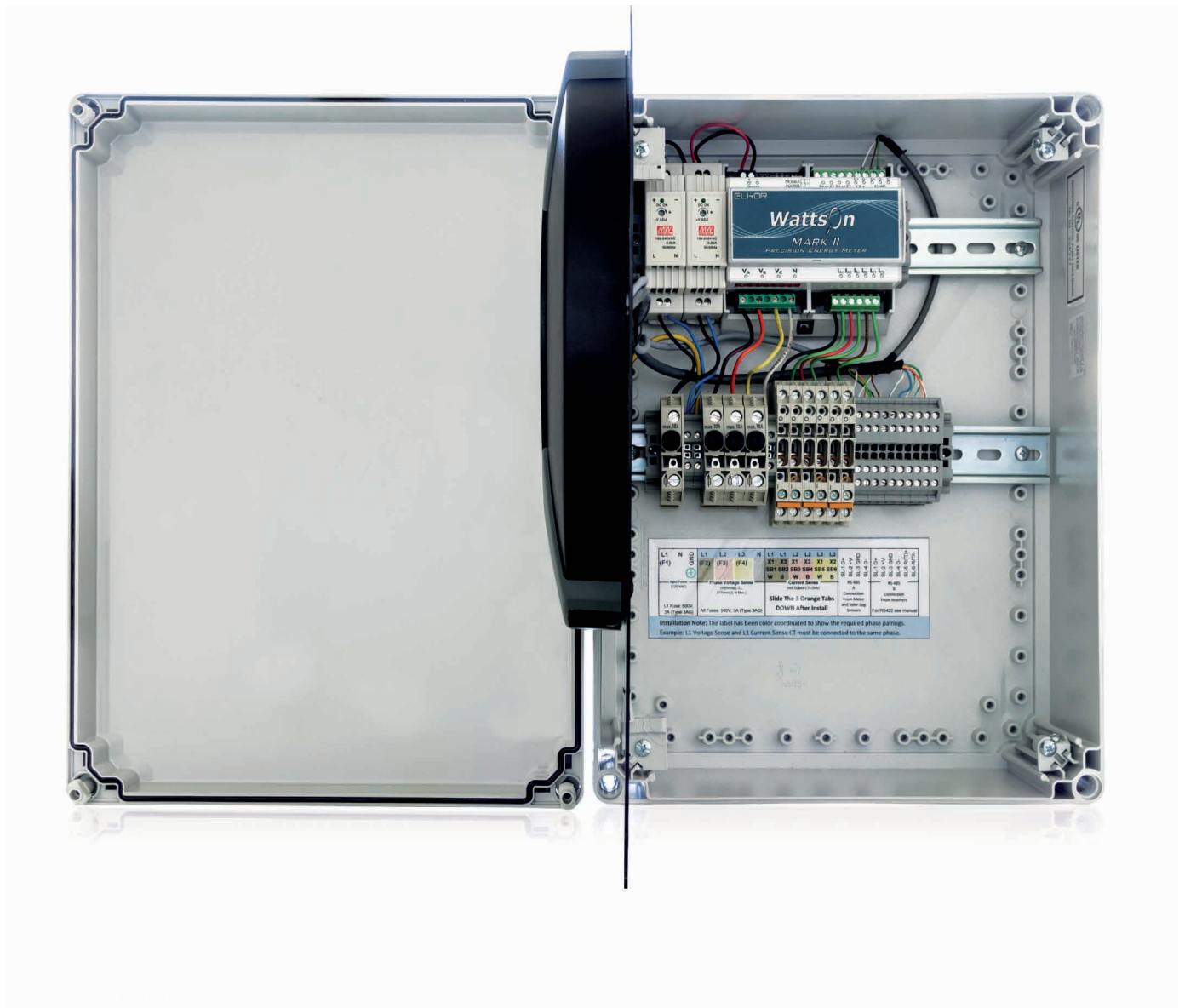


Revenue grade production metering for commercial and small-utility scale plants

Convenient & easy-to-install

Optional Power management and inverter direct monitoring when combined with a Solar-Log®

Automatic PBI eporting when combined with a Solar-Log WEB Enerest™ XL subscription



Solar-Log 2050

Commercial Revenue Grade Meter (RGM) Assembly

The Solar-Log 2050 is a revenue grade metering assembly designed for commercial and small-utility scale projects to provide accurate solar production information in a convenient, easy-to-install package. When combined with a Solar-Log® data logger, the assembly offers performance data from inverter direct monitoring, optional power control, and automatic performance-based incentive reporting with purchase of a Solar-Log WEB Enerest™ XL subscription. The Solar-Log® communicates with an RS485 or pulsing meter to deliver high accuracy metering required by many plant owners, PPAs, and financing agreements for reporting, accounting, or billing purposes. The Solar-Log 2050 offers many customizable solutions to meet the needs of fleet managers, solar PV installers, reporting agencies, utilities, and end-users.

Packaged in an indoor/outdoor enclosure, the assembly includes a revenue grade meter, power supply, fusing blocks, shorting blocks, RS485/422 ports, Ethernet port, and a swing frame for mounting a Solar-Log® data logger.

Advantages of the Solar-Log 2050 Revenue Grade Meter

- Easy to install, maintain, and operate at a cost effective price-point for commercial and small-utility 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 Renewable Energy Credit (REC) monetization
- Export data over LAN or cellular connection (with 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 compatible with any standard 5A CT
- MCTA version available with mA current transducers
- 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
- Solar-Log WEB Enerest™ Fleet Management Tools - error codes, virtual irradiance (production forecasting), clustering (comparative production), alerts and logbook for monitoring and end user dashboard
- Solar-Log WEB Enerest™ app available for iOS and Android

General Data (with added Solar-Log® Data Logger)

Inverter connection options	Ethernet 1 x RS485, 2x RS485/RS422, 1 x CAN (1 inverter manufacturer per bus)
Max. plant size	2000 kWp - up to 3 inverter manufacturers
Max. cable length	Max. 1000 m ¹⁾
Central inverter SCB and SMB	●
String monitoring (depending on type of inverter / on tracking level)	●
Inverter failure, status of fault and power monitoring	●
Connection of sensors (irradiation / temp / wind)	●
E-mail and text message alarm	●
Connection to Solar-Log WEB Enerest™	●
Memory, Micro-SD, 2 GB, endless data logging	●

1) Depending on the inverter used, and the cable type (details can also vary from one type of device to another).

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 13lbs Cellular Version 22lbs
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 1200	255591
Solar-Log 1900	256241
Solar-Log 2000	255592
Solar-Log® Revenue Grade Split Core CT - 0.75"- up to 200A	806307
Solar-Log® Revenue Grade Split Core CT - 1.25"- up to 600A	806308
Solar-Log® Revenue Grade Split Core CT - 2" x 3"- up to 1500A	806309
Solar-Log® Revenue Grade Split Core CT - 3" x 5"- up to 2000A	806310

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