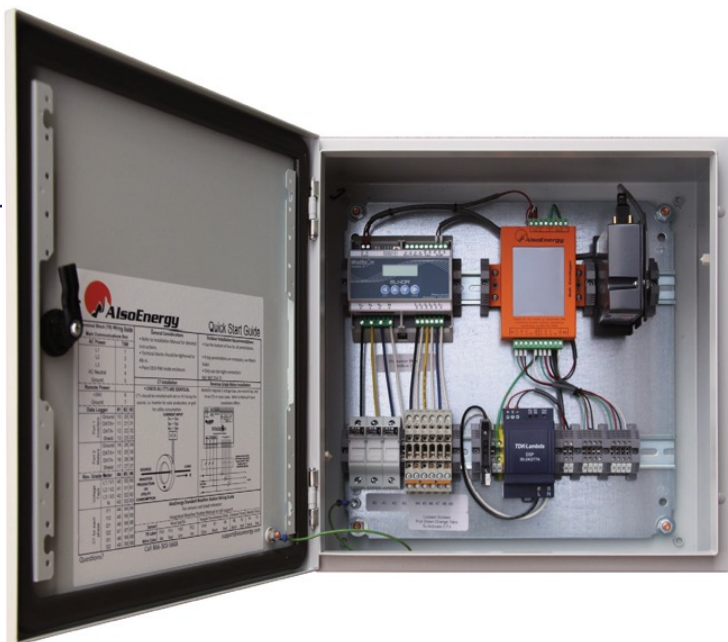


PowerLogger Commercial Solution 600

AlsoEnergy's vertically-integrated, edge-to-cloud platform includes a convenient standardized hardware monitoring solution for small to mid-sized commercial PV systems. The PLCS 600 combines our standard commercial datalogger with a revenue grade meter, a weatherproof NEMA 4 enclosure, and other supporting hardware. The PLCS 600 is recommended for 3-phase systems with up to 20 external inverters. Performance data is uploaded to PowerTrack, AlsoEnergy's flagship cloud-based application for monitoring, managing, and optimizing energy and financial performance of clean energy assets.



Standardized PLCS 600 includes:

- DataLogger with LCD touchscreen display
- Revenue grade energy meter compatible with all 5A CTs (sold separately)
- Three weather station choices may add data for irradiance, back-of-module panel temperature, ambient temperature, and wind speed
- 5-port Ethernet switch
- NEMA4 weatherproof enclosure
- 4G cell modem (requires a cellular plan)

Solution features

- Up to 20 external inverters
- Modbus via RS-485 or TCP connections to inverters
- 4G cellular connectivity
- Remote firmware updates
- Up to 1-minute data granularity
- Uploads at 5-minute intervals
- Suitable for demand meter, relay, other non-PV use cases
- For systems with a single metering point; direct metering or PT secondary voltage up to 600VAC
- Satisfies reporting requirements for most US electricity sector agencies
- All parts except weather sensors and cell modem covered with standard AlsoEnergy 5-year warranty
- Supported on PowerTrack only engineering & project management teams

PLCS 600 Options

PLCS-600-CM-BASE	+ cell modem, + reference cell, BOM panel temperature
PLCS-600-CM-PLUS	+ cell modem, + reference cell, BOM panel temperature, ambient temperature, wind speed
PLCS-600-CM-PRO	+Class C pyranometer

Specifications

Assembly

Enclosure dimensions	15.7" x 15.7" x 7.9" (400mm x 400mm x 200mm)
Enclosure rating	NEMA4
Operating temperature	-13° to 158°F (-25° to 70°C), <95% relative humidity non-condensing
Power supply	120-277VAC
Communication ports	Three available 10/100 Ethernet ports, two half-duplex rs485 ports
Regulatory	UL listed 508A

Datalogger

Devices supported	Up to 40 connected Modbus RTU enabled devices (20 per rs485 port) / Recommended limit 32
Storage	Removable 2GB industrial rated micro SD card
Serial	RS-485 with integrated 120 ohm termination resistor
Primary protocols	Modbus TCP, Modbus RTU, most proprietary inverter protocols
Touch screen	Color, resistive touch screen 2" by 2.75"
Warranty	Standard 5-year warranty

Meter

Voltage inputs	90-600VAC
Accuracy	Meter 0.2% (see CT datasheet for CT accuracy information)
CTs	Any CT with 5A secondary current ratio (sold separately)
CT accuracy	Refer to CT datasheet
Warranty	Standard 5-year warranty



Irradiance sensor

(Included with Base, Plus, and Pro weather station options)

Irradiance sensor type	Monocrystalline Silicon reference cell with mounting bracket and 3m twisted pair shielded cable
Absolute accuracy	$\pm 5\text{W/m}^2 \pm 2.5\%$ of reading
Dimensions	3.34" W x 6.10" H x 1.54" D (85mm x 155mm x 39mm)
Warranty	1 year against defects in materials and workmanship

Back of module panel temperature sensor

(Included with Base, Plus, and Pro weather station options)

Form	3m cable with 3-pin connector compatible with paired reference cell - sensor cable cannot be extended
Sensor type	PT1000 Class A
Mounting	Self-adhesive for attaching to a solar module
Warranty	1 year against defects in materials and workmanship

Wind speed sensor

(Included with Plus and Pro weather station options)

Form	Cup star anemometer with 5m 2-pin connector compatible with paired reference cell
Sensor type	Reed relay
Mounting	Mounting bracket for pole or surface mounting included
Accuracy	0.5 m/s or 5% of reading
Sensor range	0.9 – 40m/s (2 – 90 mph)
Warranty	1 year against defects in materials and workmanship

Ambient temperature sensor

(Included with Plus and Pro weather station options)

Voltage inputs	90-600VAC
Accuracy	Meter 0.2% (see CT datasheet for CT accuracy information)
CTs	Any CT with 5A secondary current ratio (sold separately)
Warranty	Standard 5-year warranty

Class C pyranometer

(Included with Pro weather station option)

Form	ISO 9060 Spectrally Flat Class C (Second Class) Pyranometer
Communication	RS-485 / Modbus
Mount/Set up	Ball-level tube mount/10 Meter, M12-A Cable
Warranty	Manufacturer's 5-year warranty

Cell modem

Cellular data	4G LTE
Warranty	1 year

