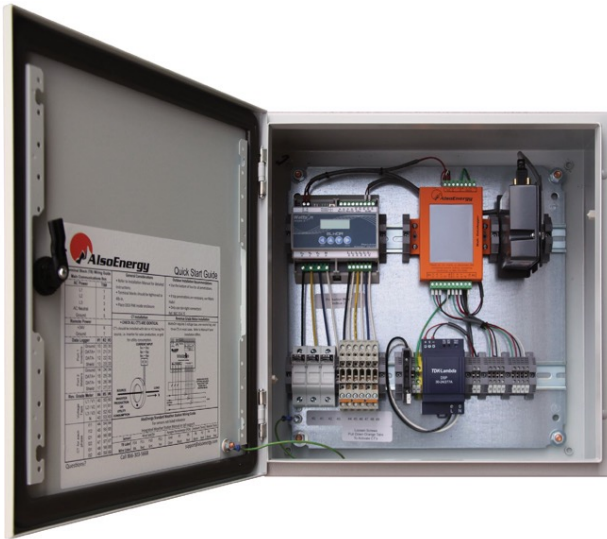


PLCS 600: PowerLogger Commercial Solution 600

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. Customers may choose to add weather sensors and/or a cellular modem. 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)
- Two optional 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
- Optional 4G cell modem (requires a cellular plan)

Solution Features

- Up to 20 external inverters
- Modbus via RS-485 or TCP connections to inverters
- Cellular or Ethernet 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-CM-PLUS	+ cell modem, + reference cell, BOM panel temperature, ambient temperature, wind speed
PLCS-600-CM-BASE	+ cell modem, + reference cell, BOM panel temperature
PLCS-600-CM-00	+ cell modem, no environmental sensors
PLCS-600-00-PLUS	no cell modem, + reference cell, BOM panel temperature, ambient temperature, wind speed
PLCS-600-00-BASE	no cell modem, + reference cell, BOM panel temperature
PLCS-600-00-00	no cell modem, no environmental sensors

Specifications: PLCS-600

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) / <i>Recommended limit 32</i>
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 and Plus weather station option)

Irradiance sensor type	Monocrystalline Silicon reference cell with mounting bracket and 3m twisted pair shielded cable
Absolute accuracy	±5W/m ² ± 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 and Plus weather station option)

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 weather station option)

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 weather station option)

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

IRRADIANCE SENSOR (included with Base and Plus weather station option)

Form	Pt1000 1/3 Class B with integrated modbus RTU digitizer
Dimensions	3.34" W x 6.10" H x 1.54" D (85mm x 155mm x 39mm)
Wiring	Includes 3 meters of twisted-pair, shielded cable
Warranty	1 year against defects in materials and workmanship

CELL MODEM

Cellular data	4G LTE
Warranty	1 year

