

Features

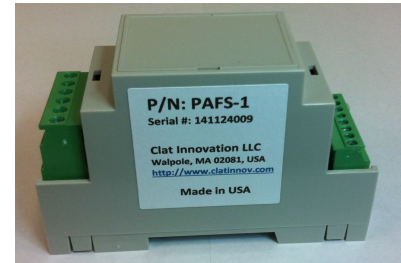
- Up to 200A DC current capable of 1 combiner box (*Note 1)
- Maximum cable outer diameter: 19mm (good for copper wire 4/0 @ 1000V or 600V (*Note 2)
- Open drain output capable of driving contactor directly
- Wide range of DC power supply voltage: 7V to 32VDC (*Note 3)
- Current consumption: 65mA @ 7VDC, 20mA @ 32V
- On board self testing and reset button with interface
- RS485 interface, MODBUS RTU protocol
- Green LED indicator
- 35mm DIN Rail mounting (PAFS-1) or PCB mounting (PAFS-2)option
- 5.08/3.5 mm terminal bock interface
- Detached Current Transducer (CT) for installation flexibility. Other type of transducer option is available (*Note 4)
- Type 1 device. UL1699B, UL1998 recognition. ROHS Compliant.
- -35 to 70C for enclosure version, -40 to 80C for PCB version
- Physical Size:
 - Enclosure: 90.2mm x 36.3mm x 57.5 mm
 - PCB: 86.9mm x 32.8mm x 30mm

Note 1: Depending upon system. Transducer maximum capacity 1000A.

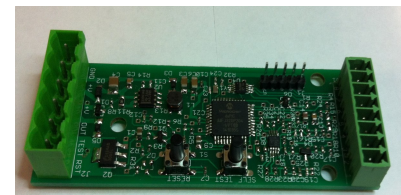
Note 2: In case of higher cable diameter, please contact Clat Innovation LLC for recommendations.

Note 3: In battery application, voltage range must not be violated if power is directly from battery.

Note 4: Check with Clat Innovation for other transducer options, such as Hall effect current transducer.



PAFS - 1



PAFS - 2



Current Transducer

Applications

- Data center UPS and backup power system
- Solar system string inverter, combiner box, central inverter

Description

2011 and 2014 NEC (National Electrical Code) article 690.11 requires series arc fault detection on certain type of PV systems. Clat Innovation LLC's PAFS series products are designed to meet this demand.

The PAFS is an electronic module which can be used with one or more off-board current transducer (CT). The PAFS monitors one or more (separated or combined) strings in a solar array. By analyzing the current noise signature passing through the string wires, PAFS can effectively determine whether there is arcing event occurring in the PV system under monitoring. Once an arcing event is determined, the PAFS will change its output (alarm output and LED display) to indicate the status change. The alarm output can then directly drive a disconnect device, which can be either a contactor or inverter input, to open the arcing path.

Please contact [Clat Innovation LLC](http://www.clatinnov.com) for complete datasheet