



## **DC Plus™** **DC to DC Converter Systems**

The fan-cooled PCP DC to DC Converter System consists of a mounting shelf which will accept three each 19"/48 cm wide or four each 23"/58 cm wide, plug-in converter modules. In addition, the shelf contains a wiring compartment for front access wiring of the input, output, and alarm connections.

Each DC to DC converter uses PCP's advanced high frequency (50 KHz), MOSFET circuitry. PCP first introduced its MOSFET DC to DC converters in 1981. Thousands of these converters are in service in telecommunications applications.

The converter's 50 KHz technology provides high efficiency, excellent voltage regulation, superior transient response, and clean, quiet operation. Various converter modules are offered for operation from +24 VDC, -24 VDC, and -48 VDC battery plants. Each converter module is rated at approximately 500 watts and contains an integral fan for horizontal cooling. Converter modules are offered in an N+1 configuration. Multiple converters can be paralleled for higher power requirements – up to hundreds of amperes.

The converter mounting shelf is totally front access and is 7" (18 cm) high (4 RU). The 19" (48 cm) wide shelf will accept three converter modules; the 23" (58 cm) wide shelf will accept four converter modules. Both shelves are 13-1/2" (34 cm) deep. Total weight of a 23" wide mounting shelf with four converter modules is 40 lbs/18 kg.



### **Standard Features**

- Isolated output
- Input circuit breaker (UL Recognized)
- Output LED ammeter
- Major and minor output fail alarms (Form "C" contacts)
- Output blocking diode
- Low input voltage cut-off (auto restart)
- Forced parallel operation with disable switch
- Slow start
- Current limited at 105% of rated output current with nominal input
- Adjustable high DC voltage shutdown (field adjustable in 0.5 VDC increments)
- Auto restart
- 80% to 85% efficiency
- Adjustable output (front access)
- Front access test points
- 19" or 23" (48 or 58 cm) rack mounting
- Remote converter restart and shutdown capabilities
- Converter Fail LED
- Converter OK LED
- Fan Fail LED
- High temperature shutdown
- Shelf and modules seismically tested and approved per Telcordia GR-63-CORE (Zone 4).

