

POWER SUPPLY

POWER CONDITIONING AND CONTROL MODULE

- Ground Based Military Application



The PCCM will provide a nominal output voltage of 28Vdc, when external DC power is connected. Output power distribution is accomplished through branch output circuits that are independently controlled by commands over an EIA-422 data bus from the controlling computer, which also monitors PCCM operational status.

While the external DC power source is connected, the PCCM is also capable of providing battery charging for a 24Vdc Lead Acid battery configuration. When the DC power source is not connected and the battery is charged, the PCCM uses regulated DC power from the Battery to supply a nominal branch circuit output voltage of 28 Vdc. The PCCM also provides operator interfaces that control power selection and distribution to its external loads, as well as visual status indications.

Specifications:

Electrical Specifications

- **Input:**
24 VDC from Battery or 28 VDC from MIL-STD-1275B Source
- **Output:**
28 VDC and 24 VDC for Battery Charging
- **Efficiency:**
85% minimum

Mechanical Specifications

- **Operating Temperature:** -46°C (-115°F) to 49°C (120°F)
- **Weight:** 30 lbs
- Functions while immersed to 1.5 meters
- Drop test to MIL-STD-810E, Method 516.4, Table 516.4-II
- Night Vision compatible
- External Battery Health Display
- External Power Indicators

PCCM