

POWER SUPPLY MODULE



Features

- ✧ Remote shutdown from open collector driver
- ✧ Provides 115 VAC bus for control points
- ✧ On-board circuit breaker
- ✧ Isolated 12 VDC Bias for powering up to 12 digital inputs
- ✧ RTU Power output to Radio Interface Module (opto isolated O.C. output)
- ✧ On-board voltage regulation
- ✧ LEDs on power, bias, & shutdown
- ✧ Surge protected (nondestructive)
- ✧ No adjustments, switches or straps (self-configuring)
- ✧ Keyed to prevent damage
- ✧ Gold edge connector fingers
- ✧ Module removable without disturbing field wiring
- ✧ Power interlocked to prevent removal while powered
- ✧ UL Listed

Description

The Power Supply Module (PSM002) provides highly efficient conversion of 115 VAC power to 13.8 VDC power. An isolated, unregulated +12V output is provided for biasing up to 12 digital input points. It also provides for charging of the 12V battery and supports the Radio Interface Module (RIM) interface for shutdown and power fail detect. The PSM002 is the 50 watt version Power Supply Module. The PSM002 is used for RTU204, RTU210 models, and wherever an isolated 12V Bias is required.



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POWER SUPPLY MODULE (PSM002)

Brief Specifications

The Power Supply Module (PSM) shall supply +13.8 volts. The power supply shall be short circuit-protected by current limiting. Normal operation shall automatically resume when the short circuit overload is removed. The power supply shall be sized to operate the system with the battery removed. The Power Supply Module shall provide a battery backed, isolated bias voltage source of 12 VDC. The isolated bias voltage source shall be utilized to monitor lift station high well alarms so as to make sure the alarm is detected and reported during power outages. The circuit breaker for the PSM shall part of the device. Connector fingers shall be gold-over-nickel-over-copper plated to inhibit corrosion. Neither the use of tools nor the disconnection of any wires shall be required to replace the Power Supply Module.

Technical Data

Board size	5.25" x 6.88"
Input Voltage	85-132 VAC
Bias output drive	12 digital input points
Output Voltage	13.8 VDC
Output Power	50W

Warranty

Data Flow Systems, Inc. (DFS) offers a one (1) year on-site warranty covering defects in materials and workmanship. All DFS "plug-in" function modules, Pump Control Units (PCU), Supervisory Control Units (SCU), and Back Pack Radios (BPR) carry an extended two (2) year return-to-factory warranty. This extended warranty does not cover misuse, vandalism, or Acts of God. However, these items are warranted against damage due to lightning for the entire three-year period.

Represented by

Order Model PSM002-1

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