

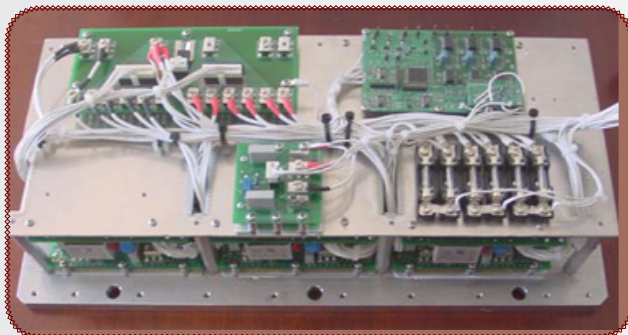
ROW Power Supply

BACKGROUND INFORMATION

Brief Description: The ROW Power Supply operates on 120/208 VAC input and provides +28 VDC 50 amps average power to a pulsed transmitter. The supply will provide a peak power of 260 amps at a 140 Hz rate. It also provides unregulated -60 VDC and performs fault monitoring and reporting.

This unit is a Form, Fit and Functional replacement for the AN/FPS-117(V) Over the Horizon Radar System.

Part No: A14140011M



Complete Assembly



Top View Open

Specifications

Input: Voltage 120/208 3 phase
(Voltage range per leg 100 to 130)
Frequency: 50 – 400 Hz
Output 1: 28 VDC
10A \pm 10% into Static
Resistive Load
50A \pm into Dynamic Load
(1.37 ms Pulse width at 140 Hz
PRF)
(260 Amp for 1.37ms at a
140Hz Rate)
Output 2: -60 VDC
40mA \pm 20VDC Unregulated
Efficiency: \geq 75%

Fault Sensing:

1. Over Current 60Amp (Fused)
2. Under Current $<13 \pm 3$ Amps at the end of 800 microsecond transmit surge
3. Over Voltage 31.5 ± 0.5 VDC
4. Under Voltage 24 ± 0.5 VDC
5. Over Temp Sensor
6. Input Voltage Faults:
Low Between 80 VAC and 100 VAC per leg
High at 130 VAC
7. Unbalanced VAC loading between phases

Features:

Manufacturer: Micro USA, Inc.
Cage Code: 02UU8