2000-16-3624 Power Supply / Battery Charger

The 2000-16-3624 Power Supply/Battery Charger uses a +10VDC - +36VDC input to provide +24VDC @3A and +12VDC @3A outputs used for remote terminals. Additionally the power supply will operate from up to 4 BB-2590 type military batteries when DC input power is not available. The power supply provides all the functionality and safety features of a Level 2 charger and with optional Ethernet will provide Level 3 charger capabilities. With DC input power applied, the power supply will charge the batteries as needed based on the data collected from the batteries via the SMBus to a maximum of 8Amps total charge current. The power supply can be used as a stand alone charger. LED indicators show battery status, Primary Power Source, +12V and +24VDC Status. The power supply is housed in a 10” X 16” X 1.5” enclosure (connector protrusion not included).

**EQUIPMENT SPECIFICATIONS**

**DC Input Characteristics**
- Voltage: +10VDC to +36VDC**
- Input Power: 400 watts max (i.e., 40A with +10VDC input)

**DC Output Characteristics**
- Voltage / Current: +12 VDC @ 3 amps Max.**
- +24 VDC @ 3 amps Max.**
- Load Regulation: ± 5%
- Power Supply Type: Switcher
- Switching Frequencies: Various

**Battery Charger Characteristics**
- Number of Chargers: 4 Dual
- Charger Type: Level 2 “Smart” (Level 3 with Ethernet Option)
- Charge Current: 8 Amps Max. Total
- Chargeable Battery Type: BB-2590 with SMBus or Compatible

**LED Indicators**
- Power: Green
- Alarm: Red (DC Outputs, Thermal, etc.)
- Primary Power (2): Green (DC Input or Battery)
- DC Outputs (2): Green (+24VDC and +12VDC)

**Battery SOC Indicators**
- Green (Flash = Charging): 61% to 100%
- Yellow (Flash = Charging): 21% to 60%
- Red (Flash = Charging): 0% to 20%
- All Off: No SMBus Battery Detected

**Physical Characteristics**
- Size (Excluding Connector Protrusion): 10”W x 16” L x 1.563” D (254 x 406 x 39.7 mm)
- Weight: 10 lbs (4.5 kg)

**Environmental**
- Temperature: 10˚ C - 40˚ C
- Humidity: < 95%, Non-Condensing

**I/O Connectors**
- DC Input: 1701692 (Phoenix Contact) 1967456 - Phoenix Contact 6-20 AWG Wire
- +24VDC Output: Molex 39-30-0020 Molex 39-01-2020 (Contact 39-00-0039)
- +12VDC Output: D-Sub 9 pin Female
- Remote On/Off: Amp 6403892
- Battery: SN0019-5NA-0-0 (5 Key)
- Ethernet: RJ-45 Female (optional)

**Mating Connector**
- 1967456 - Phoenix Contact 6-20 AWG Wire
- Molex 39-09-2020 (Contact 39-00-0039)
- D-Sub 9-pin Male shell
- Amp 640426-2 (18 AWG Wire)
- Battery - SC-C-179495 (or equivalent)
- RJ-45 Male (Optional)

*Specifications subject to change without notice.
** Consult Factory for different Input and Output Voltage Requirements.