

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 (Flashing = Charging) 61% to 100%
Yellow (Flashing = Charging) 21% to 60%
Red (Flashing = 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.k kg)

Environmental

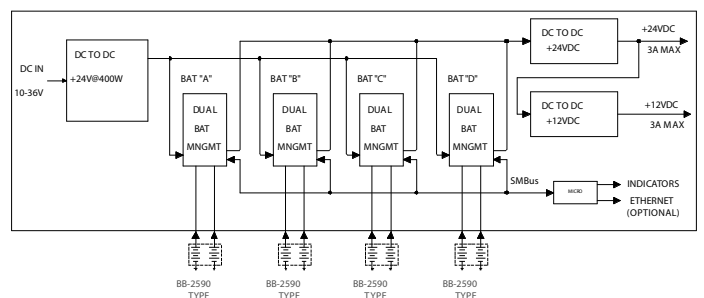
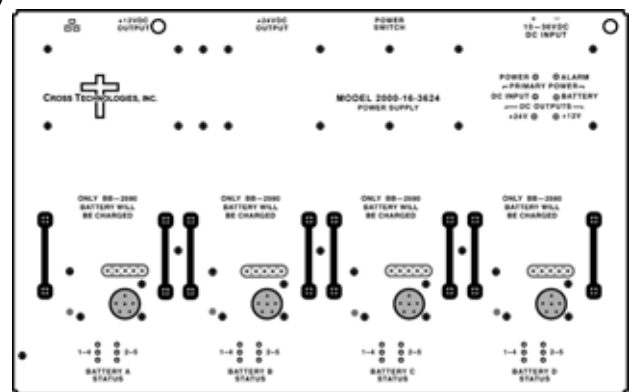
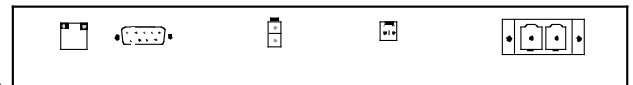
Temperature 10°C - 40°C
Humidity < 95%, Non-Condensing

I/O Connectors

DC Input - 1701692 (Phoenix Contact)
+24VDC Output - Molex 39-30-0020
+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 39-01-2020 (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)



2000-16-3624 Block Diagram

Available Options

M&C Interface

W18 - Ethernet; w/WB & SNMP
W28 - Ethernet; w/TCP/IP, Telnet

*Specifications subject to change without notice.

** Consult Factory for different Inout and Output Voltage Requirements.