

## 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

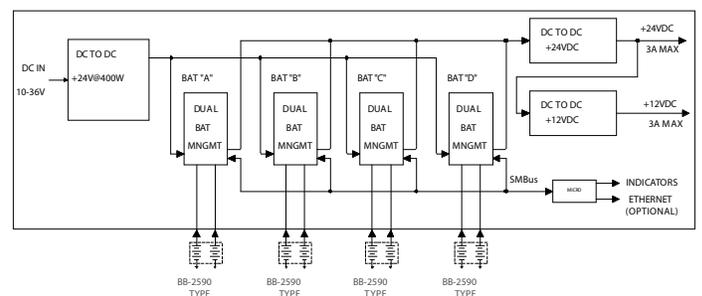
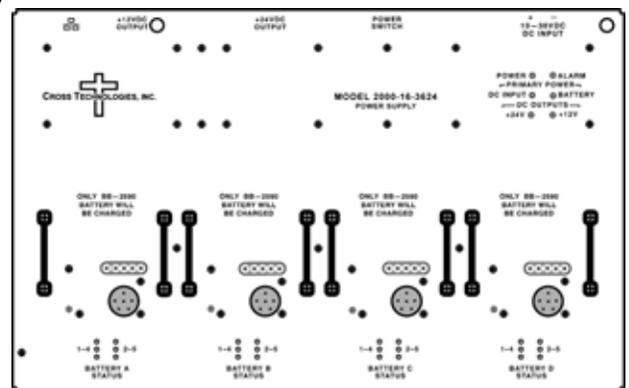
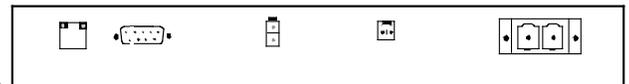
Temperature 10°C - 40°C  
Humidity < 95%, Non-Condensing

#### 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.