# **DCX-350** Commercial **Multiple Output 48 Vdc Input**



Option F

# SPECIFICATIONS:

# Input

**Dc Input** 

DCX models 40.8-60 Vdc range, internally fused for 15 A. Efficiency

70 to 75% typical. OUTPUT

# Adjustability

All outputs user adjustable ±5% minimum.

## Line & Load Regulation

±2% over dc input range and 0 to 100% load change, except DPS models hold ±3% on +5 V output (preprogrammed slope). Multiple output units require a minimum load of 10% on the +5 V output when drawing full load on the auxiliary outputs.

## **Ripple & Noise**

Less than 1% p-p or 100 mV, whichever is greater. **Remote Sense** 

(Output #1): Compensates for 250 mV total line drop. Open sense lead protection. (See Redundancy, below.)

## **Temperature Coefficient**

0.02% per degree C.

# Stability

0.1% over 8 hours after 30 minutes warm-up.

## **Transient Response**

Output voltage returns to within 1% in less than 500 µs for a 50% load change. Peak transient does not exceed 5%.

**Overload Protection** 

All outputs are protected against overload and short circuit. Automatic recovery upon removal of fault.

# **Overvoltage Protection (Output #1)**

Protects load against power supply induced overvoltage. Trip point is factory set so that output voltage cannot exceed 136% of nominal.

## **Peak Output Current**

Dual current ratings define continuous and peak currents. The peak current shown can be delivered for a maximum period of 30 seconds.

## **Remote Inhibit**

Contact closure to the negative sense line drops output power to nominal zero.

## **Reverse Voltage**

Protected against reverse voltage up to supply current rating.

# FEATURES:

- Over 3 watts/in3 power density
- Meets international safety requirements
- All outputs regulated ±1%
- · High peak currents for motor starting
- System air and self-cooling options
- Available in dual ac input range

# **ENVIRONMENTAL**

#### **Thermal Protection**

Shuts down power supply if overheated. Automatic recovery. **Temperature Range** 

# 0° to 50°C at full ratings.

Safety Agencies

Most models are approved to UL1950; CSA 22.2 #234; IEC 950 and TÜV EN60950, Class 1 SELV., CE 72/23/EEC/93/68EEC (low voltage directive).

#### **Conducted RFI**

Meets FCC Part 15, Subpart J, Class A; EN55022 Class B; CISPR 22 Class B.

# Cooling

30 cfm required to achieve full ratings. **Output Isolation** 

Isolated from ground 50 Vdc, except 100 Vdc for models rated 48 Vdc output.

#### OPTIONS Option "F"

Fan/Cover Assembly: Cover with integral ball-bearing fan provides proper cooling to achieve full ratings at 50°C ambient temperature.

#### DC INPUT

| FUNCTION  | -48 Vac        | +24 Vdc        | CONNECTOR           |
|-----------|----------------|----------------|---------------------|
| TB1-(-)   | -48 Vdc Input  | +24 Vdc Return | Barrier strip #6-32 |
| TB1-(+)   | -48 Vdc Return | +24 Vdc Return | screws 3/8" centers |
| TB1-(GND) | Safety Ground  | Safety Ground  |                     |

# DC OUTPUT

| FUNCTION      | LOCATION           | NOTES               | CONNECTOR              |  |
|---------------|--------------------|---------------------|------------------------|--|
| Output #1     | Terminal marked +V | Main Output         | Bus bars #10-32 screws |  |
|               | Terminal marked -V | Rtn (Common)        |                        |  |
| Output #2     | TB2-3              |                     |                        |  |
| (If provided) | TB2-4              | Rtn (Common)        | Barrier strip          |  |
| Output #3     | TB2-5              |                     | #6-32 screws           |  |
| (If provided) | TB2-4              | Rtn (Common)        | 3/8" centers           |  |
| Output #4     | TB2-1              | (+) Floating Output |                        |  |
| (If provided) | TB2-2              | (-) Floating Output |                        |  |

# STATUS AND CONTROL

| FUNCTION       | LOCATION  | NOTES               | CONNECTOR        |
|----------------|-----------|---------------------|------------------|
| Remote Sense   | J1-1 (+S) | Output #1 Sense     | AMP MTA type     |
|                | J1-2 (-S) | Output #1 Sense Rtn | #640456-4 pin    |
| DC Power Good* | J1-3      | Reference to J1-2   |                  |
| Inhibit        | J1-4 (IH) | Short to J1-2       | header (locking) |

\*Optional function

# DCX-350 Commercial 350 Watt Multiple Output

| Commercial<br>Model | Power Out | Output No. | Output | Current   | Total Regulation |
|---------------------|-----------|------------|--------|-----------|------------------|
| DCX-354-1205        | 350       | 1          | +5 V   | 50 A      | 1%               |
| DCX-354-1205F       |           | 2          | +12 V  | 8/12 A pk | 1%               |
|                     |           | 3          | -12 V  | 4 A       | 1%               |
|                     |           | 4          | 5.2 V  | 2 A       | 1%               |

# **DCX-350 MECHANICAL SPECIFICATIONS:**

5.00 MAX 2.50MAX 63.5MAX 127.0 MAX 3.90 .<u>40</u> 10.2 19 30 2PL 99.0 TBI 1.25 31.8 R38 NO.IV ADJ Ø <u>6.50</u> 165.1 9.00MAX 228.6MAX 00 ADJ ZNO.8-32 8PL 1/4 MAX PENETRATION ∠ <sub>TB2</sub> Z<sub>PIN 1</sub>

DCX-350 3.2 lb - 1.5 kg





#### Dimensions: Inches Millimeters