DCS1000( ) - ( Input ) - ( V, A)

Behlman’s DCS1000 series of COTS power supplies are low cost, highly reliable, switch mode units built for high-end industrial or MIL applications. The DCS1000 can accept a wide range of inputs and can supply a variety of DC outputs. These rugged power supplies are built to support the rigor of airborne, shipboard and mobile applications and designed to meet the input power requirements of MIL-STD-704 and RTCA-DO160. Units are Base Plate cooled.

INPUT (I) Input Transient protection: Per Mil-STD-704
-1: 85-265 VAC, 47-440 Hz, Power Factor Corrected
-2: 90-132 or 180-264 VAC, 47-440 Hz, Auto-ranging
-3: 20-32 VDC
-4: 36-72 VDC
-5: 200-400 VDC
-6: 115/200 VAC, 3 phase, 47-440 Hz

OUTPUT (S):  S (Single); D (Dual); T (Triple); Q (Quad)
Voltage: (V) 2 to 48 VDC +/-1%
Current: (A) (X) Amps. Maximum power 1000 watts
Load Regulation: 0.2% Maximum (0-100%)
Line Regulation: 0.2% Maximum
PARD-Ripple & Noise: 1% Typical
Current Limit: Short Circuit and Over Current Protected
Over voltage: Included
Efficiency: 72 to 85% depending on model
Remote Sense: 0.6V compliance

GENERAL CHARACTERISTICS
Isolation
Input to Output: 1000 VDC
Input to Case: 2500 VDC
Output to Case: 200 VDC
Dimensional Data: 9.75"L X 5.0"W X 2.0"H
Weight: 3.4 lbs
J1- Input: 5 pin connector
J2- Output: 30 pin connector

ENVIRONMENTAL:
Operating Temperature: -40 to +85 degrees C Base Plate
Storage Temperature: -40 to + 100 degrees C
Shock: MIL-S-901; MIL-STD-810
Vibration: MIL-STD-167; MIL-STD-810; RTCA/DO-160D
Humidity: MIL-STD-810
EMI/EMC: MIL-STD-461C/D; RTCA/DO-160D
RE01/101 compliance when installed in shielded enclosure