

DCM2000(6)-6280 P/N 94087

Behlman's DCM2000 series of COTS power supplies are highly reliable, switch mode units built for high-end industrial or military applications. The DCM2000 accepts type III MIL-STD-1399 115/200 VAC, 3-Phase, 400 Hz input power and complies with the applicable input harmonic current limits. It also accepts MIL-STD-704 115/200 VAC, 400 Hz power. There are six DC outputs configured to supply the required voltages to power avionics test sets. The unit also provides filtered 3-phase 115/200 VAC output with current capability of 10 A per phase. Two internally mounted temperature sensors can be continuously monitored for accurate internal temperature measurement. These rugged power supplies are built to support the rigors of the shipboard environment. Units are convection cooled with no fans or moving parts.

INPUT

- 6: 115/200 VAC, 400 Hz, 3-phase, 4-wire, MIL-STD-704 & MIL-STD-1399 SEC 300B (Type III)
Input Current Harmonics per MIL-STD-1399
Input Transient protection: Per MIL-STD-1399 and MIL-STD-704

OUTPUTS (6)

1. 22 V or 28 VDC +/-1% @ 12 A (External logic selectable)
 2. 15 VDC @ 12 A
 3. 5V VDC @ 5 A
 4. +36V VDC @ 4 A
 5. -36V VDC @ 4 A
- Total Accuracy & Regulation: 2.5% Maximum (0-100%)
PARD-Ripple & Noise: 1% Typical
Current Limit: 120% Typical
Over voltage: 135% Typical
6. 270 VDC @ 7.5 A
- Total Accuracy & Regulation: 3.5%
PARD-Ripple & Noise: 5%
 7. 115/200VAC, 400 Hz, 3-phase @ 10 A/phase (Limited by max input current)

Efficiency: 80% Typical



CONTROLS AND INDICATORS

- Input Power: Circuit breaker
Output Power: Individual Remote On/Off control (contact closure), except 15V, for each output
Emergency Shutdown: Disables all outputs
Indicators: LED's for Input power present: ØA, ØB, ØC; Over temperature warning
Chassis Ground Stud: 1/4-20 UNC-2A X .88 lg.

PROTECTIVE CIRCUITS

- Input Overvoltage/Overcurrent Protection
Output Overvoltage/Overcurrent Protection
Over Temperature Protection

GENERAL CHARACTERISTICS- SEE O&C DRAWING 24161

Isolation	
Input to Output:	1500 VDC
Input to Case:	1500 VDC
Output to Case:	500 VDC
Dimensions:	16"L X 16"W X 8"H
Weight:	85 lbs
Connectors:	
J-1 Input:	D38999/20TD5PN (5 Pin)
J-201 Output:	D38999/20TJ43SN (43 pin)
MTBF:	382,000 G _r @ 80°C

ENVIRONMENTAL:

Operating Temperature:	0 to +55 degrees C air temperature
Storage Temperature:	-40 to + 71 degrees C
Shock:	MIL-PRF-28800F Class 3
Bench Handling:	MIL-STD-810G Method 516.6 Procedure VI
Bounce, Loose Cargo:	MIL-STD-810G Method 514.6
Vibration:	MIL-PRF-28800F Class 3
Humidity:	MIL-PRF-28800F Class 3
EMI/EMC:	MIL-STD-461F (CE101, CE102)



Rear View



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