

### DCM2000-6280

#### 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 avionic 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) 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 <sub>f</sub> @ 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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