

### DCA1800T-6-(12,128)-(5,40)-(3.3,8)

Behlman's DCA series of COTS power supplies are highly reliable, switch mode units built for high-end industrial or MIL applications. The DCA series accepts three phase wye or delta inputs and can supply a variety of DC from 3.3 VDC to 100 VDC outputs. Output power levels range from 1500 W to 3000 W depending on exact input and output configuration. 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, MIL-STD-1399 and RTCA-DO160. Units are Fan cooled.

**OUTPUT POWER** 1800 W (maximum concurrent power from all three outputs)

#### INPUT/SOURCE

-6: 115/200 VAC, 3-Phase Wye, 47-440 Hz, IAW MIL-STD-704A including transients

#### OUTPUTS: Triple (T)

Voltage/Current	12 VDC @ 128A 5 VDC @ 40A 3.3 VDC @ 8A
Load Regulation	+/-0.25% maximum (0-100%)
Line Regulation	+/-0.25% maximum
PARD-Ripple & Noise	1% maximum (12V & 5V); 1.5% maximum (3.3V)
Overcurrent Protection	115% typical; auto-recovery
Overvoltage Protection	125% typical (latching)
Overtemp Warning	Asserted when low; auto-recovery
Overtemp Shutdown	Output shutdown; auto-recovery
Efficiency:	73% minimum
Remote Sense	0.5V compliance (all outputs)
Output Enable Control	Asserted when low
LED Indicators	ACOK, DCOK

#### GENERAL CHARACTERISTICS

Isolation	
Input to Output	10 Megohms minimum @ 500V
Input to Chassis	10 Megohms minimum @ 500V
Output to Chassis	10 Megohms minimum @ 100V
Output to Output	10 Megohms minimum @ 100V
Dimensional Data	9.5" H, 6.25" W, 10.5" D
Weight	21 lbs max.
Input Connection (J1)	6 Contact Circular Connector (RNJ27T1706PN023)
Output Connections	
12V (J3, J4)	High Current Bus Bars (2 x TE Connectivity 538-17-00100)
5V, 3.3V (J2)	43 Contact Circular Connector (RNJ27T2543SN023)



[www.behlman.com](http://www.behlman.com)

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### ENVIRONMENTAL:

Cooling Method	Forced Air via 2 x Pressurized Internal Heat Exchangers
Operating Temperature	
Ambient Temp	-40°C to +55°C
Coolant Temp	-34°C to +38°C
Mass Flow Rate	2.4 lbs per minute maximum at 21.1°C, 1.0" H <sub>2</sub> O max pressure drop
Storage Temperature	-40 to + 100 degrees C
Designed to meet	
Shock (Operating)	MIL-STD-810E, Method 514.6, 30g / 11msec
Shock (Non-Operating)	MIL-STD-810E, Method 514.6, 40g / 11msec
Vibration	MIL-STD-810E, Method 514.4
Humidity	Up to 100% (condensing)
Fungus	Non-Nutrient Design and Construction
Sand and Dust	MIL-STD-810E, Method 509, Procedure I
Salt Fog	MIL-STD-810E, Method 510, Procedure I
Explosive Atmosphere	MIL-STD-810G, Method 511.4, Procedure I
EMI/EMC:	MIL-STD-461F, CE102, CS101, CS114, CS115 & CS116 w/external filter



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