

Military Custom Off-The-Shelf Power Supply PC-MG06

700W Single Output built-in Fan Cooled AC-DC Switching Power Supply

Main Features:

- Well Regulated and Filtered to Dynamic Loading
- Over Current / Over Voltage / Over Temp / Short Circuit Protection
- Complies with MIL-STD-461C / MIL-STD-810E
- Capable of Operating in Parallel
- Output Monitoring & Remote Inhibit
- Robust Mechanical Design
- Input / Output Isolation
- Low Ripple & Noise
- Built-in EMI Filter
- Reliability (MTBF) : >50,000 hours

Typical Applications:

- Phased Array Radar System
- Electronic Warfare (EW)
- Army Ground System



Main Specification:

- Input Voltage : 208VAC, 3 ψ , 3W-Y, 60HZ, N-Grounded, 30A, CB Protected
- Output : +50VDC , 14A
- Operating Ambient Temperature : 0°C~ +50°C
- Operating Relative Humidity : 5%~95% (Non-Condensed)
- Parts, Materials, Processes, In Accordance with Table 1 & MIL-E-16400
- Safety to Pass MIL-STD-454, Requirement 1
- Marking to Meet MIL-STD-130
- Reliability (MTBF): 50,000 hours

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Electrical Specifications:

Input	208VAC, 3 ψ , 3W-Y, 60HZ, N-Grounded, 30A, CB Protected				
Inrush Current	<16Amps(peak)				
Output Power	No.	O/P Voltage	O/P Current (Max.)	O/P Current (Min.)	Ripple & Noise (Max.)
	1	+50Vdc	14.0A	1.4A	200mVp-p
Dynamic Regulation	Io=12.6A change to 14A; Vo=50-5% Recover to 50-0.2%V, Trr:2ms Io=14A change to 12.6A; Vo=50+5% Recover to 50+0.2%V, Trr:2ms,				
Regulation	50V \pm 0.2% (49.9V \leq Vo \leq 50.1V)				
Function	Remote Inhibit: Pin 6 and Pin 7 Close to open, Power Supply ON to OFF; \leq 10V 30mA				
	Power Good: Pin 4 and pin 5, normal close; \leq 10V 30mA				
	Output Monitoring: Isolated from ground system & DC return: Voltage of pin 4 to +O/P Bus/ ground system & DC return: 0V Voltage of pin 5 to +O/P Bus/ ground system & DC return: 0V				
Protection	Short Circuit: \geq 25% ; Crowbar				
	Over Load: 115% \pm 10% (14.7A~17.5A) Fold back current limiting				
	Over Temperature: Shut-down within 15 $^{\circ}$ C of damage condition @50V/14A; Auto Recovery.				
	Over Voltage: Trip point: 130 \pm 5% ; Auto Recovery.				
Efficiency	\geq 70% @50V/14A				
Temperature	0 $^{\circ}$ C ~ +50 $^{\circ}$ C .				
Humidity	5% to 95%.				
Isolation	\leq 5mA (Leakage Current) @Test Voltage = 500Vdc; Test Time = 2 sec. for I/P to Chassis.				
	\leq 5mA (Leakage Current) @Test Voltage = 200Vdc; Test Time = 2 sec. for O/P to Chassis.				
Insulation Resistance	\geq 10M Ω @Test Voltage= 500Vdc for I/P to O/P.				
EMI Environment	MIL-STD-461C PART4 CE03 & RE02				
	MIL-STD-810E 501.3 I、II				
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	MIL-STD-810E 507.3 III				
	MIL-STD-810E 514.4 I-3.3				
	MIL-STD-810E 516				
Cooling	By Militarized long-life structure fan.				
Mechanical	See Attached Drawing.				
Weight	29 lbs				
Parallel operation:	Capable of operating in parallel; Discrepancy of o/p current between the 2 power supplies \leq +,-15%				

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Size : 279.4mm(L) * 203.2mm(W) * 127mm(H)

Drawing:

