Military Power Supply Feature Design Gallery

Features

- 220Vac or 120/208Vac, 3ψ, 3W+G or Vdc Input
- High Temperature and Humidity Environment
- Protection: SCP/OVP/OCP/OTP
- Voltage Sense Line
- High Reliability: MTBF 100,000 hours min.

Main Applications

- Phased Array Radar System
- Missile Launching System
- Airborne Missile System
- Shipboard Communication System
- Unmanned Aircraft System (UAS)
- Electronic Warfare (EW)
- Power Bank for Ground System

Compliance

- Environmental per MIL-STD-810G.
- EMC per MIL-STD-461G
  (CE101, CE102, RE101, RE102, CS101, CS114, CS115, CS116, CS118, RS101, RS103).
- Input per MIL-STD-704F & MIL-STD-1275D.

Quality Systems

TÜVNORD
TÜV NORD CERT GmbH
ISO/IEC 27001
tuev-nord.de

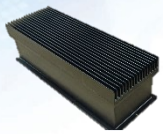
ISO 9001 QUALITY MANAGEMENT SYSTEM

AS9100D CERTIFIED ISO 9001

AC-DC Power Supply for Phase Array Radar System

Model No.	Photo	Input Voltage	Output Voltage/Current	Output Power(W)	Dimension L*W*H (mm)
PC-MG07		120Vac 1 Phase	5V/2.5~25A 75V/0.05~0.5A (N+1 Redundancy)	162.5W	407.45*125*125
PC-MG06		120/208Vac 3 Phase	50Vdc/14A (N+1 Redundancy)	700W	279.4*203.2*127
PC-MG05		120/208Vac 3 Phase	5Vdc/220A (N+1 Redundancy)	1100W	335*203*127

AC-DC Power Supply for Missile Launcher

Model No.	Photo	Input Voltage	Output Voltage/Current	Output Power(W)	Dimension L*W*H (mm)
PC-MG37		190~250Vac 1 Phase	24Vdc/30A； 28Vdc/10A	1000W	400*145*119.3
PC-MG48		AC 208V ±10% 1 Phase	28Vdc/30Vdc/32Vdc/34Vdc (Selectable by Jumper Adjustment)	1200W	420*136.5*110

AC-DC Power Distribution System for Missile Launcher

Model No.	Photo	Input Voltage	Output Voltage/Current	Output Power(W)	Dimension L*W*H (mm)
PC-MG43		220Vac 3 Phase	300Vdc/50A	15000W	420*300*230
PC-MG18-C		220Vac/3 Phase 120 Vac/1 Phase (Triple Input)	300Vdc/50A； 24Vdc/25A	15000W	640*482*266
PC-MG18-D		220Vac 3 Phase (Dual Input)	300Vdc/60A； 28Vdc/35.7A	18000W	550*482*266

AC-DC Power Supply for Shipboard Electronic Warfare System

Model No.	Photo	Input Voltage	Output Voltage/Current	Output Power(W)	Dimension L*W*H (mm)
PC-MG01-1A		90~132Vac； 180~264Vac 1 Phase	15Vdc/26.7A； -15Vdc/26.7A； 5Vdc/10A	851W	412*482*142
PC-MG01-1B		90~132Vac； 180~264Vac 1 Phase	15Vdc/26.7A； -15Vdc/26.7A； 5Vdc/10A	851W	412*482*142

AC-DC Power Supply for Radar System

Model No.	Photo	Input Voltage	Output Voltage/Current	Output Power(W)	Dimension L*W*H (mm)
PC-MG13		208Vac 3 Phase, 47~440Hz	42Vdc/4.16A*16； 24Vdc/12.5A 12Vdc/12.5A*2； -12Vdc/6.25A 5Vdc/20A；-5Vdc/10A	3620.5W	466*466*466

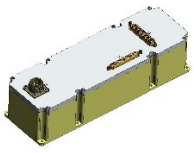
AC-DC Power Supply for Communication System

Model No.	Photo	Input Voltage	Output Voltage/Current	Output Power(W)	Dimension L*W*H (mm)
PC-MSDK50-2801		110 ~ 264Vac	28Vdc/53.6A	1500W	595*483*88
PC-DEDK50-2802		115 ~ 230Vac	28Vdc/53.6A	1500W	300*250*150
PC-MG16		110Vac 1 Phase	28Vdc/20A； 25.5Vdc/15A； 13.6Vdc/30A*2	1758W	482*540*80
PC-MG16-A		110Vac 1 Phase	30Vdc/40A	1200W	535*483*60
PC-MG16-B		110Vac 1 Phase	29Vdc/69A	2000W	482*540*89
PC-MG28		180~264Vac 3 Phase	28Vdc/52A 13.5Vdc/90A (1+1 Loading Sharing Hot Swappable)	2671W	500*482*266
PC-MG28-A		180~264Vac 3 Phase	28Vdc/52A 13.5Vdc/90A (3+1 Loading Sharing Hot Swappable)	2671W	500*482*266

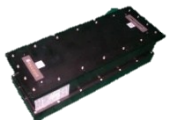
AC-DC Power Bank for Ground System (LiFePO4 Battery Inside)

Model No.	Photo	Input Voltage	Output Voltage	Output capacity	Dimension L*W*H (mm)
PC-MG49		90 ~ 264Vac	24~30Vdc (Six Outputs)	30Ah max	400*380*266
PC-MG45		90 ~ 264Vac	24~28Vdc	100Ah max	400*350*220

AC-DC Power Supply + Power Distribution Unit + LAN Control (PSPDU)

Model No.	Photo	Input Voltage	Output Voltage	Output capacity	Dimension L*W*H (mm)
MSM-4K7-48-LC		3-phase 220 Vrms	48V/32A；48V/32A； 48V/6.25A；28V/28.6A； 28V/1.6A (Split by 14 Rails of eFuse Programmable Switch On/Off Control and Current Limit.)	4217W (Peak 4679W @ 1min.)	325*310*160
MSM-1K0-28-LB		Single-Phase 220 Vrms	28Vdc/ 35.7A	1000W	300*94.5*71

DC-DC Power Supply for Missile Launcher (Isolated)

Model No.	Photo	Input Voltage	Output Voltage/Current	Output Power(W)	Dimension L*W*H (mm)
PC-MG30-4		240 ~ 360Vdc	24Vdc/41.7A； or 28Vdc/35.7A； or 30Vdc/33.3A； or 32Vdc/31.3A	1000W	400*145*106
PC-MG30-1		300Vdc	32Vdc/23A or 50Vdc/23A	1160W	400*145*120
PC-MG30-2		300Vdc	30Vdc/38A or 24Vdc/48A or 28Vdc/41A	1160W	400*145*120

DC-DC Power Supply for Anti-Missile Radar System (Isolated)

Model No.	Photo	Input Voltage	Output Voltage/Current	Output Power(W)	Dimension L*W*H (mm)
PC-MVM70-5P53		20 ~ 36 Vdc	3.3V / 3A 5.5V / 10A -5.0V / 1A	70W	112*70*13
PC-MVM160-125K		18 ~ 33 Vdc	15V/0.5A；12V/10A； 5.5V/4A； 3.3V/3A；3.3V/0.2A	160W	135*135*13
MVM-174-51-4H		48Vdc ± 15%	51V/30A peak (3A AVG, 30µs, 10% duty) 5.5V/2.5A；3.8V/1.1A -5.0V/0.5A	174W	270*147*20
MVM-177-12-7K		16 ~ 36Vdc	12V/10 A；3.3V/0.260 A； 12V/0.05 A；5.5V/8.0 A； 3.3V/3.0 A；-5.0V/0.05 A； 3.3V/0.200 A	177W	135*135*21

DC-DC Power Supply for Unmanned Aircraft System (Isolated)

Model No.	Photo	Input Voltage	Output Voltage/Current	Output Power(W)	Dimension L*W*H (mm)
PC-MG40-2		24 ~ 32Vdc	5V/6A；18V/0.5A； 12V/0.5A；28V/3A； 28V/2A；28V/2A； 12V/2A；5V/1A	270W	207*90*40
PC-MG40-1		24 ~ 32Vdc	5V/6A；28V/3A； 12V/2A；18V/0.5A； 28V/2A；5V/1A； 12V/0.5A；28V/2A	270W	150*90*40
PC-MG9612		26 ~ 30Vdc	+5V；+15V；+28V -15V；-28V	183.7W	195*105*38

DC-DC Power Supply for Military Computer

Model No.	Photo	Input Voltage	Output Voltage/Current	Output Power(W)	Dimension L*W*H (mm)
PC-MG9717		21 ~ 32Vdc	5V/15A 12V/4A 3.3V/15A -12V/15A	220.5W	233.5*167*30

DC-DC Power Supply for Airborne Missile System (Isolated)

Model No.	Photo	Input Voltage	Output Voltage/Current	Output Power(W)	Dimension L*W*H (mm)
PC-MG42-1		Dual Input Power 17 ~ 39Vdc	28Vdc/2A；28Vdc/2A； 15Vdc/1A；-15Vdc/1A； 12Vdc/3.1A；12Vdc/3.1A； 5Vdc/3A；28Vdc/0.4A	243W	Outline Diameter 190, High 43

DC-DC Power Supply for Communication System (Isolated)

Model No.	Photo	Input Voltage	Output Voltage/Current	Output Power(W)	Dimension L*W*H (mm)
PC-MG27		18 ~ 36Vdc	28Vdc/67.85A； -28Vdc/14.2A	2300W	483*300*430

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Power-Con Electronics Corporation

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