

Corder **Power**
Power is Everything



CPS-0001

Corderized™ Power Supply

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“Built by a military operator, for military operators”

The Corderized™ Power Supply (CPS) is the most versatile mobile AC/DC "plug and play" power supply available for military and non-military application where portability, ruggedness, and reliability are required. The CPS simultaneously supplies +12VDC, +24VDC, +5VDC USB and 110VAC power all in ONE compact, light-weight (22lb), ruggedized, and portable package.

The CPS has a wide range of application supporting any vehicle that operates on a core 24VDC power system. Below are just some of the common military vehicles compatible to the CPS-0001.

CUCV (Chevy Blazer)	Family of Medium Tactical Vehicles (FMTV)
HMMWV (Humvee)	M1 Series of Abrams Main Battle Tank
2.5 ton truck and 5 ton truck	Mine Resistant Ambush Protected vehicles (MRAP)
M-113 Armored Personnel Carrier (APC)	M2/M3 Series of Bradley Fighting Vehicles (BFV's)
STRYKER line of vehicles	M-ATV (MRAP All-Terrain Vehicle)

Mobile, Compact and Light Weight (Truly “Jerk and Run”)

This lightweight, rugged, and portable package is perfect for any combat unit. At just 22lbs (9.9kg) and 16.00” x 13.00” x 6.87”, it can be used in any mounted/mobile vehicle operation. Within seconds the CPS can be transferred from one vehicle to another, providing an imperative “Jerk and Run” capability in any mission critical situation.

Versatility

The CPS has 2 x 110VAC Hospital Grade GFCI Outlets, 2 x 110VAC NON-GFCI Hospital Grade Outlets, 1 x 24VDC Binding Posts (1 x Red & 1 x Black), 3 x 12VDC cigarette lighter receptacles, 1 x 12VDC Binding Posts (1 x Red & 1 x Black), and dual powered USB receptacles making the CPS the perfect “all-in-one” solution for any mobile power requirement. The CPS has proven itself to be indispensable in providing mobile power to the U.S. Air Force Tactical Air Control Party (TACP), Joint Terminal Attack Controllers (JTAC's), U.S. Army Special Operations Forces, and many other U.S. Conventional forces.

Redundancy

The 12VDC, 24VDC, 110VAC, and dual powered USB receptacles featured on the CPS operate independently of each other. This patented design provides extra performance capabilities and acts as a safeguard against complete power system failure.

Durability

The CPS is enclosed in a rugged Pelican® case for maximum durability and protection. Unlike other "tactical power supplies," the CPS does not require the lid to be open during operation in order to plug in electrical components. Operating the CPS with the lid closed allows for absolute maximum protection of the power supply's key internal components during combat and training missions.

Pure/True Sine Wave Power

With its “PURE” sine wave AC output, the CPS inverter fully ensures that sensitive equipment will be powered at its manufacturer's designed specification. The CPS AC output provides “clean” power quality, superior to AC power provided by most commercial power companies.

Air-Flow and Cooling

The CPS was built with the harshest of conditions in mind. Host to two separate cooling systems, the CPS efficiently cools internal electrical components to ensure optimal performance is always available.

Maintenance Friendly

Maintenance is a breeze with the CPS. To perform regular preventative maintenance, simply blow out any collecting dust with a can of compressed air or an air compressor. All CPS fusing is push-button resettable, eliminating any need for replacement fuses.

Plug and Play

The CPS is designed to be truly “plug and play.” Simply connect the provided NATO slave cable from the vehicle's slave cable receptacle to the input power on the CPS. For operators of other types of vehicles, such as the new M-ATV, we can provide an additional cable for plugging into the vehicular power connector located inside the vehicle cab. The CPS utilizes Amphenol® RADSOK® technology providing unmatched ruggedness and maximum efficiency of power transfer from the power source to the CPS.



Specifications

12VDC DETAILED

1. 3 x 12VDC Cigarette lighter plugs.
2. 1 x 12VDC 4 way Binding Posts (1 x Red & 1 x Black) -Bare wire, Pin connectors, Spade connectors, Banana plugs
3. Input Voltage: 20-30VDC
4. Output Voltage 12.5-14.5VDC
5. Output wattage (continuous) 120 watts
6. Wrong polarity protection (input)
7. Over-Current Protection
8. Over-Voltage Protection
9. In-line 10 amp circuit breaker protection (push to reset)
10. In-line 15 amp fuse protection (auto reset)

24VDC DETAILED

1. 1 x 24VDC Binding Post (1 x Red & 1 x Black).
2. Input voltage: 20-30VDC
3. Output voltage: Direct from vehicle batteries/charging system.
4. Output wattage (continuous): 480 watts
5. In-line 20 amp circuit breaker protection (push to reset)

110VAC DETAILED

1. 2 x Hospital Grade (HG) GFCI and 2 x Non GFCI HG outlets
2. Input Voltage: 21VDC-30VDC.
3. Output wattage (continous): 300 watts
4. Surge wattage: 400 watts
5. Output voltage: 110VAC
6. Voltage regulation: $\pm 5\%$
7. Output frequency: 60Hz($\pm 0.3\%$)
8. Output wave form: PURE/TRUE SINE WAVE
9. Efficiency (Full Load): 89%
10. No load power consumption: 0.28amp
11. Battery low voltage visual alarm: 21VDC ± 1 Volt
12. Battery low voltage shutdown: 20VDC ± 1 Volt
13. Battery high voltage visual alarm: 30.6VDC
14. Battery high voltage shutdown: 30-32VDC
15. Working humidity: 20-90% RH Non-condensing
16. Thermostatically controlled internal fan
17. Visual fault status LED
18. Output 110VAC receptacles short circuit protection
19. Output 110VAC overload protection
20. Capable of driving highly reactive/capacitive loads
21. Operation environment temperature 0°-40°C
22. Heat dissipation: Internal fan with external heatsink
23. Isolated input and output: I/P~O/P:100M Ohms/500VDC
24. In-line 20 amp circuit breaker protection (push to reset)

Recommended Usage (not limited to)

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| <ol style="list-style-type: none"> 1. Remotely Operated Video Enhanced Receiver (ROVER III) <ol style="list-style-type: none"> a. 12VDC with cigarette lighter style plug b. 120VAC with cigarette lighter style plug plugged into AC supply. 2. Remotely Operated Video Enhanced Receiver (ROVER II) <ol style="list-style-type: none"> a. 120VAC with AC power supply b. 24VDC with banana jack plugs or clamps 3. Powers all commuting components of the TACP-CASS <ol style="list-style-type: none"> a. GETAC A320 Laptop b. TACTER 31-A c. MRT Hammerhead 4. Defense Advanced Global Positioning System Receiver (DAGR) cigarette lighter power cable (NSN: 6150-01-521-2548) 5. GPS external power sources (ex. Garmin® Etrex Vista external power/PC cable P/N: 010-10268-00). 6. Global Positioning Satellite (GPS) re-radiators (ex. Vortech® RA-46) 7. Laptops (Intel® Centrino® technology is recommended). 8. Thales® PRC-148 MBITR Six Station AC only Battery charger P/N 1600580-2 9. Thales® PRC-148 MBITR Six Station AC/DC Battery Charger P/N 1600580-1 10. Thales® PRC-148 MBITR Single Station Battery Charger P/N 1600581-1 | <ol style="list-style-type: none"> 11. Thales® PRC-148 MBITR SPAI Power supply P/N 410-1310-501 (NSN 6130-01-506-7606) 12. Thales® PRC-148 MBITR Tactical Battery Charger P/N MA6751 (NSN 6130-01-487-1154) 13. Iridium® satellite phone charger (ex. Motorola® Iridium Satellite Series® 9500 or 9505 P/N: SYN0039B). 14. 12VDC powered refrigerators (4amps = 60 watts) (ex. Roadpro® Mini 12 Volt Car Cooler Warmer) 15. 12VDC powered warmers (4amps = 60 watts) (ex. Roadpro® Mini 12 Volt Car Cooler Warmer). 16. 12VDC (2.5amps = 30 watts) powered freezers (ex. Koolatron® 12 Volt Freezer F-86). 17. 12VDC powered coffee machines (ensure they require less than 15amps maximum). 18. Charging small portable air compressors (ex. Coleman® P/N: PMC8140) 19. Charging portable battery jump starter systems (ex. Coleman® P/N: TMP-PMJ8160). 20. MRC-85, MRC-85A, MRC-86, MRC-86A, MRC-54, MRC-88, MRC-143A, MRC-135A, MRC-119-139 21. MRC-132, MRC-33, MRC-62, MRC-82A, MRC-99, PSU-40, MRC-141, MRC-37B, MRC-46A, |
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Warranty Information

- A. The Corderized™ Power Supply is guaranteed against manufacturer defects for 1 year from date of purchase.
- B. Corder Power also offers customized warranty packages upon request.

Corder Power L.L.C
 Redwood Falls, MN 56283
 CAGE/NCAGE CODE: 4CE61
 DUNS: 617054965
 PH: 1-877-627-2850 - FAX: 1-866-893-8288
sales@corderpower.com

“Patent Pending”



www.corderpower.com

All of our manufacturing and assembly is completed here in the United States of America; nothing is sent overseas to be assembled. Our quality control is of the highest standards and assembly is done with the greatest attention to detail.