



# ANALYTIC SYSTEMS

Power Conversion Solutions

## AC/DC POWER SUPPLY

## MODEL UPS-DC2800 SERIES COTS POWER SUPPLY



### Description

The UPS-DC2800 Power Supply is designed to provide uninterrupted DC power to a load up to 100A. It has 2 distinct parts: the AC to DC portion of the power supply consisting of 3 x 1500 Watt Power Modules that are phased independently. The DC to DC converter portion of the power supply is capable to supply up to 2850 Watts of additional power from a battery input with a voltage range (24-33) V/ 100A (modified SAFT LBB).

This design incorporates state of the art switchmode technology for unmatched efficiency and ultra-quiet operation. Multiple stages of filtering reduce radiated or conducted noise to very low levels. Safety features include over-temperature shutdown, current limiting, short circuit protection with automatic recovery and input under-voltage shutdown.

Optional features include a Full Battery Charger version, a 3-Bank Load Splitter and/or a temperature compensated charging sensor. We are confident that you will get many years of reliable service from this AC/DC Power Supply.

### Benefits

- Reliable power output
- Power sensitive electronics without interference
- Rugged & Reliable
- Ensure years of safe and trouble free operation
- Clean, Precise Power

### Design Features

- Ideal as a COTS Power Supply for Military Applications
- Military-Grade extrusion ensures a high tolerance for shock and vibration
- High altitude operation
- Ultra-quiet low EMI operation
- Can be left permanently connected
- Short circuit protection
- Inrush Current Limiting with solid state bypass
- 110/220 Vac auto-ranging input
- 3 year parts and labour warranty
- Built in accordance to the ISO 9001:2008 Quality System

### Military Option

- Military / COTS Applications
- Marine & other rugged environments
- Electric Utilities and Substations
- Base Station Power (Radio & Telecommunications)
- OEM Applications
- Field Work / Construction Sites
- Solar Power Systems
- Emergency Power Backup (UPS)

 Schedule GSA Contract #GS-07F-5624R

An ISO9001 Registered Company Battery Chargers • Inverters • Power Supplies • Voltage Converters

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

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Electrical (Input)	
Nominal Vac (in)	3phase 120Vac phase to neutral
Nominal VDC (in)	20-33 V
Actual (Vac)	
Input Amps (max)	17A max
Input Fuse (slow blow)	20 A Breaker (User-provided)
Input Frequency	60Hz +/- 20%
Noise on Input	Up to 50mV of PARD
Electrical (Output)	
Output Nominal (op)	AC operation: 29.2 VDC @ 10A
Output Volts (DC)	Batt. Back-up: 28.5 VDC @ 1A
Output Current (Cont. Amps)	150 A
Output Current (Max. Amps)	250 A (current limit)
Output Ripple & Noise	100 milli-Volts
Environment Specification	
Operating Temp. Range	(-40C to + 55C) with no derating
Humidity	(0 – 95)% RH non-condensing
Audible Noise	Less than 20db @ 3 feet
Altitude	No damages at high altitudes as follows: 1. Operational up to 20,000 feet 2. Non-operational up to 35,000 feet
Sealing	Meets IP67 specifications
Vibration	Designed to meet MIL-STD-810G specifications
Mechanical Specification	
Length	19.5 in (495.3 mm)
Width	16.2 in (411.5 mm)
Height	9.0 in (228.6 mm)
Clearance	2 in (55.8 mm) all around
Material	6063-T5 Aluminum
Finish	Black Anodized
Fastenings	All 18-8 Stainless Steel
Weight	72 lb / 33 kg
Connections	4 military: 1 @ AC IN, 1 @ BATT IN, 1 @ DC OUT, 1 @ EIA/TIA-422 OUT
Vibration	Meets MIL STD 810g, 514.6C-3
Warranty	

Note: Specifications are subject to change without notice.



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