

DRS's DUAL INPUT / OUTPUT UPS 425-01B

Sustainment Systems Power Solutions



DRS Pivotal Power's Dual Input/Output No Break Power Supply is a true online Uninterruptible Power Supply (UPS) delivering clean conditioned power for ground mobile applications.

The 425-01B UPS is designed to meet a variety of military applications and supplies 250 watts of conditioned 24 VDC output power and 1 kW of conditioned AC output power from an AC or DC source. The internal battery tray offers 10 minutes of backup time. Additional backup time is available.

The 425-01B UPS is designed to survive harsh operating environments and can be used for portable or hard-mounted applications. Its robust enclosure is drip-proof protected and designed to survive an optional Nuclear Biological and Chemical (NBC) washdown requirement. Designed for global deployment, it will operate from an AC power source of 100–250 V at 47–63 Hz or a DC power source ranging from 18–31 V. This wide input voltage and frequency range allows the power converter to operate from a generator in the field, 24 VDC batteries or from a AC power source of international power standard.

The outputs of the 425-01B UPS provide high-quality power with a pure sine wave AC output suitable for powering nonlinear loads with a high crest factor requirement and a low noise DC output suitable for powering critical electronic loads.

The 425-01B UPS uses active DSP based power factor correction such that when powered from the AC source, the input current drawn is sinusoidal with low harmonic distortion and near-unity power factor.

The 425-01B UPS also functions as a power conditioner, blocking surges, spikes and transients from the input sources while maintaining reliable and stable outputs to sensitive equipment.



DRS PIVOTAL POWER



Features

- Power isolation switches
- Circular mil connectors
- Integral carrying handles
- Integral spike suppression
- Low maintenance requirements
- Electronic short-circuit output protection
- Hot swappable battery tray
- Input power factor correction
- Sealed for NBC washdown option
- Operable in NBC contaminated area
- Operable with Level IV MOPP gear

Input

AC input voltage..... 100-250 VAC nominal, single-phase
Frequency47-63 Hz nominal
DC input voltage 18-31 VDC
AC efficiency>80% at rated load
DC efficiency>80% at rated load

Output

AC output voltage 115 VAC single-phase, 60 Hz
AC power rating1 kW (1250 VA)
DC output voltage 24 VDC
DC power rating250 W

Environmental

Operating temperature:
Without battery -28°C to +50°C / -18°F to +122°F
With battery +10°C to +50°C / +50°F to +122°F
EMI/EMCMIL-STD-461E: CE102, CS101,CS114, CS115, CS116, RE101,
RE102, RS101, RS103, RS105
Vibration.....MIL-STD-810F
Shock resistanceMIL-STD-810F

Physical

Dimensions 22.75 L x 18.33 W x 6.97 H inches
578 L x 466 W x 177 H mm
Weight (Including batteries)110 lbs. (max)
50 kg (max)

Specifications subject to change without notice.

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