

Sustainment Systems
Power Solutions



DRS Pivotal Power's DC Uninterruptible Power Supply (UPS) produces precise 28 VDC output power to comply with the stringent system requirements of STANAG 1008 specification for critical naval shipboard applications. In the event of loss of input power, the UPS is capable of supplying the rated output power for 15 minutes minimum, using internal batteries, with no transient interruptions.

The power conversion of the UPS is based on switch mode technology using high-frequency Pulsewidth Modulation (PWM), which provides DC output voltage regulation with low transients. The use of power Metal-Oxide-Semiconductor Field-Effect Transistors (MOSFETs) as switching elements ensures high conversion efficiency.

The construction of the UPS is modular with draw-out type subassemblies for ease of maintenance. The system reliability is an order of magnitude greater than other static conversion equipment due to the use of high reliability components and stringent quality screening standards.

The UPS was developed and fully qualified for military applications.

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Features

- Isolation switches for input, output and battery
- Draw-out subassemblies and printed wiring boards
- Built-In-Test (BIT) capability
- Online maintenance of batteries and battery charger
- Output voltmeter
- LED status indication for input, output, backup mode operation, low battery, over current, over temperature and unit shutdown
- Fault signal for remote indication
- Circular coupling connectors for input and output
- Secondary fuse protection for output

Input

Voltage 440 VAC nominal, 3 phase
Frequency 60 Hz nominal

Output

Voltage 28 VDC
Rating 2 kW
Power backup time 15 minutes minimum at rated load
Efficiency 80% at rated load

Environmental

Operating temperature -30°C to 45°C / -22°F to 113°F
Humidity up to 95% RH non-condensing
EMI/EMC MIL-STD-461C, Part 5, surface ships
Vibration MIL-STD-167-1, Type 1, 5 Hz to 25 Hz
Shock resistance MIL-S-901C, Grade A, Class 1, Type A
Airborne noise MIL-STD-740B, Class B
Cooling method forced air convection

Physical

Dimensions 25.5 L x 19.0 W x 40.0 H inches
648 L x 483 W x 1,016 H mm
Weight (including batteries) 440 lbs. (max)
200 kg (max)

Specifications subject to change without notice.

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