

# AIRBORNE QUALIFIED UPS DC MODULE

## STINGRAY 56

DC MODULE - HR-9DC28-HT

StingRay56 is a small business supplier of integrated products, services and support to military forces, intelligence agencies and prime contractors worldwide. Focused on defense technology, the Company develops, manufactures and supports a broad range of systems and components for complex technology solutions in the areas of TEMPEST, communications, rugged computers, power conversion, digital imaging, combat, aviation and naval systems in the longest running ISO 9001:2000 TEMPEST top security manufacturing facility.

The StingRay56 *HR-9DC28-HT* is the most efficient highest quality Uninterruptible Power System designed to provide reliable battery backed up DC Power for Commercial, Industrial and Military applications. The HR-9DC28-HT with its wide voltage input converts 115VAC-230VAC or +270VDC to +28VDC power at 2100 watts continuous. The unit is designed and developed to Military maintainability, reliability and safety requirements and MIL-STD-810 qualified for airborne and other harsh environments.



COTS and Custom TEMPEST Solutions

Rugged Data Protection

Secure Mobile Technology

Certified Engineering and Test Services

Technical Support

Production & Logistics Support

Providing Advanced TEMPEST Products and Specialized Engineering Services to the Global Marketplace.

## STINGRAY 56

# RUGGED POWER

## DC MODULE - HR-9DC28-HT

### Warranty

STINGRAY56 provides a lifetime TEMPEST Integrity warranty and a one-year return to factory warranty on all other aspects of this product. Extended warranty terms are available.

### Approval Status

StingRay56 products are routinely tested and certified for compliance with TEMPEST and MIL Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

#### This product has been tested to meet:

- TEMPEST Requirements for NSTISSAM TEMPEST/1-92, LEVEL I
- AMSG720B
- MIL-STD-810 for Airborne Application
- MIL-STD-416E (CS101, CE102, CS114, RE101, RE102, RE103)



- Palm Bay, Florida
- Washington D.C.
- Ottawa, Ontario, Canada
- Disabled Veteran Owned
- Certified Small Business
- ISO 9001:2000 Certified
- NSA Certified Test Facility and an Endorsed TEMPEST Manufacturer

### StingRay56 Inc.

StingRay56 is an Endorsed TEMPEST Test Facility and an Endorsed TEMPEST Manufacturer under the U.S. Government's Endorsed TEMPEST Products Program. On-site and depot maintenance and repair are available through StingRay56's centrally dispatched Field Service organization in the U.S. and through authorized service companies worldwide.

STANDARD FEATURES		DC MODULE - HR-9DC28-HT
<b>ELECTRICAL CHARACTERISTICS</b>		
AC Input Voltage	Three Phase or Single Phase 115/220 volts at 400/60/50Hz. Also +270VDC	
Battery Backup	Separate 1U module providing 10 minutes nominal at max power output. Additional modules can be added to increase on time.	
Output Voltage	+28VDC	
Output Power	2100 Watts	
Efficiency	85%+	
<b>CONTROL</b>		
Communications port	Ethernet (Network configuration/control/status, BIT) TCP/IP data exchange	
Operation Log	Downloadable and reviewable	
Fault Alarms	Audible and via network- Loss of AC input, low battery voltage, over temperature alarms.	
Emergency Power off Control	Discrete Signal or Front Panel Switch or Ethernet Control.	
Software	GUI Control (Windows or Linux)	
<b>ENVIRONMENTAL CERTIFICATIONS</b>		
Temperature	Operating	-18C to +50C continuous
	Storage	-67C to +160C
<b>MIL-STD-810 Certified for Airborne Applications</b>		
Humidity	Per Method 507, Procedure 1	
Fungus	Per Method 508, Procedure 1	
Salt/Fog	Per Method 509, Procedure 1	
Sand / Dust / Volcanic Ash	Per Method 510, Procedure 1	
Vibration	Random 2.8Gs, Random 7.6Gs Endurance / Acoustics	
Altitude	1500ft below Sea level up to 41,000ft Rapid Decompression Attitudes	
Explosive Atmosphere	Method 511, Procedure 1	
Shock	Functional	15Gs,
	Survival loads	16Gs
	Acceleration loads	12GS
EMIC (Mil-Std-461E)	CE101, CE102, CS114, RE101, RE102, RS103.	
<b>PHYSICAL DIMENSIONS</b>		
Size	19"w x 25"d x 1u h / (48.3cm x 63.5cm x 2.3cm) Mounting per EIA-310-D	
Weight	Less packaging	57 lbs
Cooling	Natural Convection	
<b>OPTIONS</b>		
TEMPEST	NSTISSAM TEMPEST / 1-92	
<b>RELATED PRODUCTS</b>		
AC MODULE	HR-9ACZK-HT	
BATTERY MODULE	HR-9BM65-HT	

# STINGRAY 56

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