

## Lightweight Export Power Solutions for Vehicle Mounted Shelters



### 10 KW VEHICLE SHELTER INVERTER SYSTEM

DRS Pivotal Power's 10 kW Vehicle Shelter Inverter System (VSI-10) provides power for common dual load applications required for vehicle-mounted shelters, while significantly reducing the onboard weight. The inverter system converts 28 VDC from alternator vehicle power into clean 3.5 kW / 120 VAC and 6.5 kW / 240 VAC.

The VSI-10 supports multiple configurations for external or internal mounting scenarios, and the modular design can be custom packaged to fit the required space. The 10 kW VSI-10 offers reduced weight, flexible mounting configurations, and clean reliable power in a proven environmentally robust package that has been qualified for ground vehicle applications.

The VSI-10 is the state-of-the-art export power solution for the battlefield today.

**HIGHLIGHTS**

- **Dual output:**  
 3.5 kW / 120 VAC for electronics  
 6.5 kW / 240 VAC for AC systems
- **Replaces 600 pound, 10 kW auxilliary power unit with 60 pound inverter**
- **Mounting options include deck (tunnel) or rack**
- **Meets or exceeds:**  
 MIL-STD-1275B, 28 VDC vehicle power  
 MIL-STD-1332B, power quality  
 MIL-STD-461E, full Army ground requirements

	Channel One	Channel Two
<b>INPUT</b>		
Voltage	28 VDC nominal (18-32 VDC)	
Current	600 A (maximum)	
DC power disturbances	MIL-STD-1275B	
<b>OUTPUT</b>		
Applicable standards	MIL-STD-1332B Class 2B	
Configuration	Dual-phase, grounded neutral	
Output	120 VAC, single-phase	240 VAC, single-phase (optional 3-phase available)
Rated power factor	0.8	0.8
Output power	3500 W	6500 W
Output VA	4375 VA	8125 VA
Rated output current	36.5 A	33.9 A
Voltage regulation	3%	
Frequency	60 ± 0.06 Hz	
Waveform deviation	5%	
Efficiency at rated load	84%	
Harmonic distortion	2%	
<b>ENVIRONMENTAL</b>		
Electromagnetic interference/ electromagnetic compatibility	MIL-STD-461E Army ground	
Vibration	MIL-STD-810F, Category 20, 24	
Audible noise	75 dB at 0.9 m / 3 feet	
Shock (transit drop)	MIL-STD-810F, procedure IV	
Operating temperature	-32°C to 59°C / -25°F to 138°F	
Storage temperature	-51°C to 71°C / -60°F to 160°F	
Blowing rain	MIL-STD-810F, 45 degrees, 10 cm / 4 inches per hour	
Sand and dust	MIL-STD-810F, blowing dust, blowing sand 1400 mg/cubic meter	
Relative humidity	Up to 95%	
<b>PHYSICAL</b>		
Dimensions (L x W x H) (kit available for deck mount or 19 inch rack mount)	59.7 cm x 41.7 cm x 17.7 cm / 23.5 inches x 16.4 inches x 6.96 inches	
Weight	27.2 kg / 60 lbs.	

Specifications subject to change without notice.



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Cleared by U.S. DoD/OSR for public release under OSR Case Number 08-S-1759, dated June 6, 2008