

PURE SINE-WAVE INVERTER - PS-2000-24-120-CAN



HDM's PS-2000-24-120 Pure Sine-Wave Inverter provides a superior AC source for your complex electrical and frequency sensitive equipment. It provides up to 2,000W of continuous AC power for mobile and stationary applications such as satellite communication equipment, digital surveillance cameras, portable computers, and emergency medical equipment. Compact and ruggedized design, the PS-2000-24-120 inverter will ensure a clean and low distortion AC power at sea and on the road.



ELECTRICAL	
DC Input Nominal Voltage	24Vdc
DC Input Voltage Range	22 ~ 30Vdc
DC Input Under Voltage Lockout	< 21Vdc
DC Input Over Voltage Protection	> 31Vdc
No Load Current Draw	
ON state	1.5 ~ 3Adc @ 24Vdc
Sleep Mode	< 0.1Adc @ 24Vdc
AC Output Power	2000W max
AC Output Surge Rating	4000W for 1 sec
AC Output Waveform	Pure Sine-Wave
AC Output Voltage	120VAc
AC Output Frequency	60(±0.5)Hz
AC Output Voltage Regulation	±2% Vout
Distortion (THD)	< 3%
High Temperature Shutdown	≥ +85(±5)°C (Internal Thershold)
High Temperature Auto-Recovery	45°C Hysteresis
Sleep Mode	Iout < 1AAC for > 6 hours
Efficiency	90% Typ
Isolation (Input-Output)	1260VAc
Battery Type	AGM, Flooded Lead Acid Batteries
MECHANICAL	
Dimensions (LxWxH")	12.6 x 6.5. x 9.6"
Weight	27 lbs
Construction	Extruded Aluminum Case
INTERFACE	
DC Input Connection	(+)Power ITT Cannon CA3102E16-12S-B Socket Receptacle (-)Ground ITT Cannon CA3102E16-12P-B Pin Receptacle
AC Output Connection	Deutsch DTP04-4P-L012 Pin Receptacle
Remote Connection	(n/a)
Display And Control	(n/a)
Data I/O Port	Deutsch DT04-3P-L012 Pin Receptacle
ENVIRONMENTAL	
Cooling	Natural Convection
Operating Temperature	-40 ~ +65°C ¹
Storage Temperature	-40 ~ +85°C
MTBF Prediction ²	227,000 Hrs

Industry-Leading Features

- High Power Density
- High Surge Capability
- Best Thermal Performance¹
- Watertight Standard Design
- Sleep Mode to Minimize Idling Drain Current (0.1Adc vs 2~3Adc)
- Multi-Stage Output Short Circuit Protection
- Load Dump and Voltage Transient Protection
- CAN-Bus Interface

Operational & Protection Features

- Input Low Voltage Shutdown
- Input Reverse Polarity Protection³
- Input Low Voltage Shutdown
- Input Overvoltage Shutdown
- Output Over-Current Protection
- Output Short Circuit Protection
- Output Overvoltage Protection
- High Temperature Shutdown
- Auto-Recovery Function
- Sleep Mode

Applicable Performance Requirements

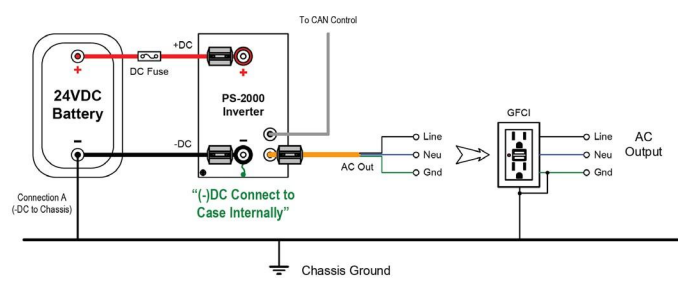
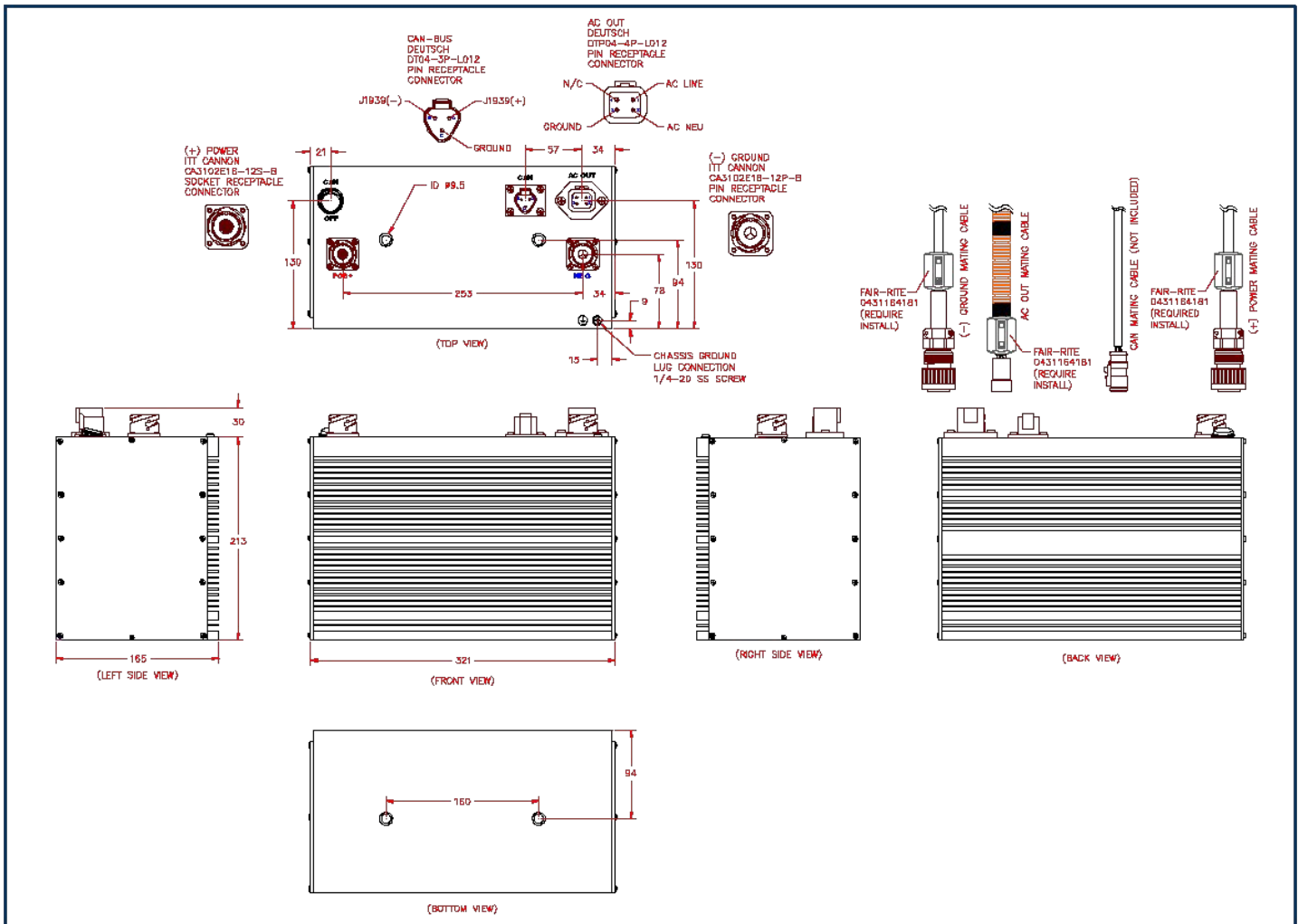
- Designed to meet IP65 Requirement
- Designed to meet Ruggedization for MIL-STD-810G
- Designed to meet Compliancy for MIL-STD-1275D
- Designed to meet MIL-STD-461F RE102

Specifications typical at 25°C unless otherwise stated and are subject to change without notice.

1. Rated output power for PS-2000-24-120 will derate above +48°C ambient temperature.
2. Calculated per Bellcore TR-NWT-000332 method at 50% stress, +40°C. Products are covered by 1 year limited warranty.
3. External DC input fuse required.



Pure Sine-Wave Inverter Diagram



Connection Block Diagram for PS-2000-24-120

MODEL	
PS-2000-24-120	
OUTPUT POWER	
2,000W	
SURGE POWER	
4,000W	
INPUT/OUTPUT VOLTAGE	
24V _{DC} / 120V _{AC}	
Add suffix after model name for optional accessories.	
-CAN	CAN-Bus Interface

All dimensions in millimeters unless otherwise specified.