

HDM's PS-2000-12-120 Pure Sine-Wave Inverter provides a superior AC source for your complex electrical and frequency sensitive equipment. It provides up to 2000W 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-2000-12-120 inverter will ensure a clean and low distortion AC power at sea and on the road.

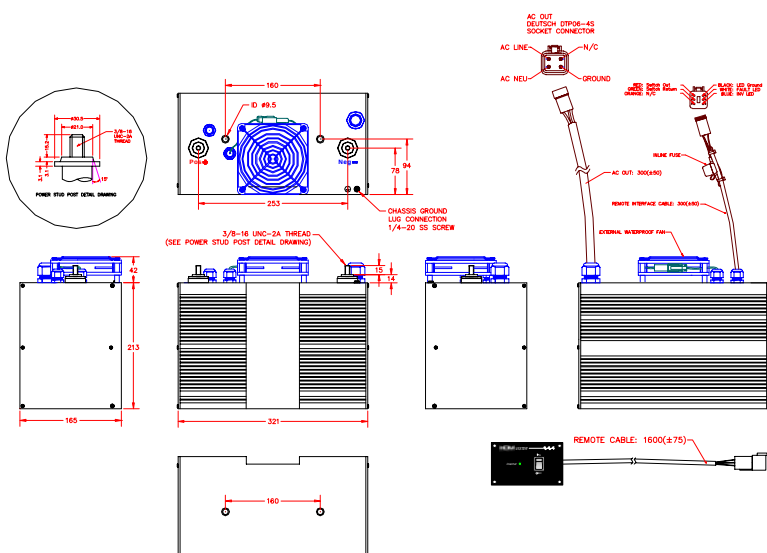
|            |                                  |                                                      |
|------------|----------------------------------|------------------------------------------------------|
| ELECTRICAL | DC Input Nominal Voltage         | 12VDC                                                |
|            | DC Input Voltage Range           | 11 ~ 15VDC                                           |
|            | DC Input Under Voltage Lockout   | < 10.5VDC                                            |
|            | DC Input Over Voltage Protection | > 15.5VDC                                            |
|            | No Load Current Draw             |                                                      |
|            | ON state                         | 2.5 ~ 5ADC @ 12VDC                                   |
|            | Sleep Mode                       | < 0.2ADC @ 12VDC                                     |
|            | AC Output Power <sup>1</sup>     | 2000W                                                |
|            | AC Output Surge Rating           | 4000W                                                |
|            | 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 Threshold)                     |
| MECH       | High Temperature Auto-Recovery   | +60(±5)°C (Internal Reset)                           |
|            | Sleep Mode                       | Iout < 0.3(±0.2)AAC for > 6 hours                    |
|            | Efficiency                       | 90% Typ                                              |
|            | Isolation (Input-Output)         | 1500VAC                                              |
|            | Battery Type                     | AGM, Flooded Lead Acid Batteries                     |
|            | Dimensions (LxWxH")              | 12.6 x 8.8 x 9.7"                                    |
|            | Weight                           | 32 lbs                                               |
|            | Construction                     | Extruded Aluminum Case                               |
| INTERFACE  | DC Input Connection              | 3/8-16 Stud Terminals                                |
|            | AC Output Connection             | 12" 12AWG/3C Cable with Deutsch DTP06-4S Socket Plug |
|            | Remote Connection                | 12" 18AWG/6C with Deutsch DT06-6S Socket Plug        |
|            | Display And Control              | 64" 18AWG/6C with Deutsch DT04-6P Pin Receptacle     |
|            | Data I/O Port                    | n/a                                                  |
| ENVIRON    | Cooling                          | Top Side Mounted External Waterproof Fan             |
|            | Operating Temperature            | -40 ~ +65°C <sup>1</sup>                             |
|            | Storage Temperature              | -40 ~ +95°C                                          |
|            | MTBF Prediction <sup>2</sup>     | 227,000 hrs                                          |

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

<sup>1</sup> Rated output power for PS-2000-12-120 will derate above +50°C ambient temperature.

<sup>2</sup> Calculated per Bellcore TR-NWT-000332 method at 50% stress, +40°C. Products are covered by 1 year limited warranty.

<sup>3</sup> External DC input fuse required.



## INDUSTRY-LEADING FEATURES

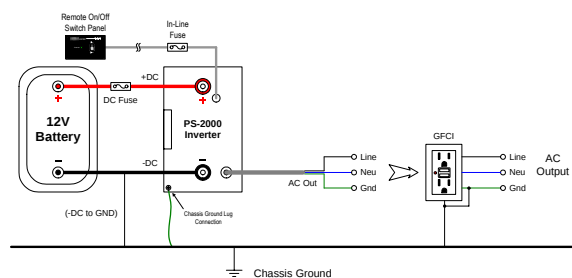
- ♦ High Power Density
- ♦ High Surge Capability
- ♦ Best Thermal Performance Without Derating <sup>1</sup>
- ♦ Watertight 3 PSI Standard Design
- ♦ Sleep Mode to Minimize Idling Drain Current (0.2ADC vs 3~5ADC)
- ♦ Multi-Stage Output Short Circuit Protection
- ♦ Load Dump and Voltage Transient Protection
- ♦ RS232 or CAN-Bus Interface (Optional)

## OPERATIONAL & PROTECTION FEATURES

- ♦ Input Reverse Polarity Protection <sup>3</sup>
- ♦ 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

- ♦ Meets IP65 Requirement
- ♦ Ruggedization for SAE J1455 Chassis Mount Components
- ♦ Compliance for ISO 7637-2 Electrical Transient



Connection Block Diagram for PS-2000-12-120

| MODEL          | OUTPUT POWER | SURGE POWER | INPUT/OUTPUT VOLTAGE |
|----------------|--------------|-------------|----------------------|
| PS-2000-12-120 | 2,000W       | 4,000W      | 12VDC / 120VAC       |

Add suffix after model name for optional accessories.

|      |                   |
|------|-------------------|
| -RS  | RS232 Interface   |
| -CAN | CAN-Bus Interface |

Dimensions in millimeters unless otherwise specified.