

HDM's PS-1000-350-120 Pure Sine-Wave Inverter provides a superior AC source for your complex electrical and frequency sensitive equipment. It provides up to 1000W 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-1000-350-120 inverter will ensure a clean and low distortion AC power at sea and on the road.

ELECTRICAL	
DC Input Nominal Voltage	350Vdc
DC Input Voltage Range	240 ~ 430Vdc
DC Input Under Voltage Lockout	< 238VDC
DC Input Over Voltage Protection	> 435VDC
No Load Current Draw	
ON State	0.1 ~ 0.2A _{dc} @ 350Vdc
Sleep Mode	< 5mA _{dc} @ 350Vdc
AC Output Power ¹	1,000W
AC Output Surge Rating	2,000W for 1 second
AC Output Waveform	Pure Sine-Wave
AC Output Voltage	120V _{AC}
AC Output Frequency	60(±0.5%)Hz
AC Output Voltage Regulation	±1% V _{out}
Distortion (THD)	< 3%
High Temperature Shutdown	≥ +85(±5)°C (Internal Threshold)
High Temperature Auto-Recovery	+60°C (Hysteresis)
Sleep Mode	I _{out} < 1A _{AC} for > 6 hours
Efficiency	93% Typ
Isolation (Input-Output, Input-Case)	3000V _{AC}
Battery Type	Lithium-Ion Batteries
MECHANICAL	
Dimensions (LxWxH)	7.9" x 6.5" x 10"
Weight	15 lbs
Construction	Extruded Aluminum Case
INTERFACE	
DC Input Connection	Deutsch DTP04-4P-L012 Pin Receptacle
AC Output Connection	12" 14AWG/3C Cable with Deutsch DTP06-4S Socket Plug
Remote Connection	12" 18AWG/6C with Deutsch DT06-6S Socket Plug
Display And Control	60" 18AWG/6C with Deutsch DT04-6P Pin Receptacle
Data I/O Port	(Optional)
ENVIRONMENTAL	
Cooling	Top Side Mounted External Waterproof Fan
Operating Temperature	-40 ~ +65°C ¹
Storage Temperature	-40 ~ +85°C
MTBF Prediction ²	462,000 Hrs

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

1 Rated output power for PS-1000-350-120 will derate above (TBD)°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.



Standard Features

- High Density
- High Surge Capability
- Best Thermal Performance
- Watertight Standard Design
- Sleep Mode to Minimize Idling Drain Current (5mA_{dc} vs 0.1~0.2A_{dc})
- Multi-Stage Output Short Circuit Protection
- Load Dump and Voltage Transient Protection
- External Waterproof Fan
- Base Mounting

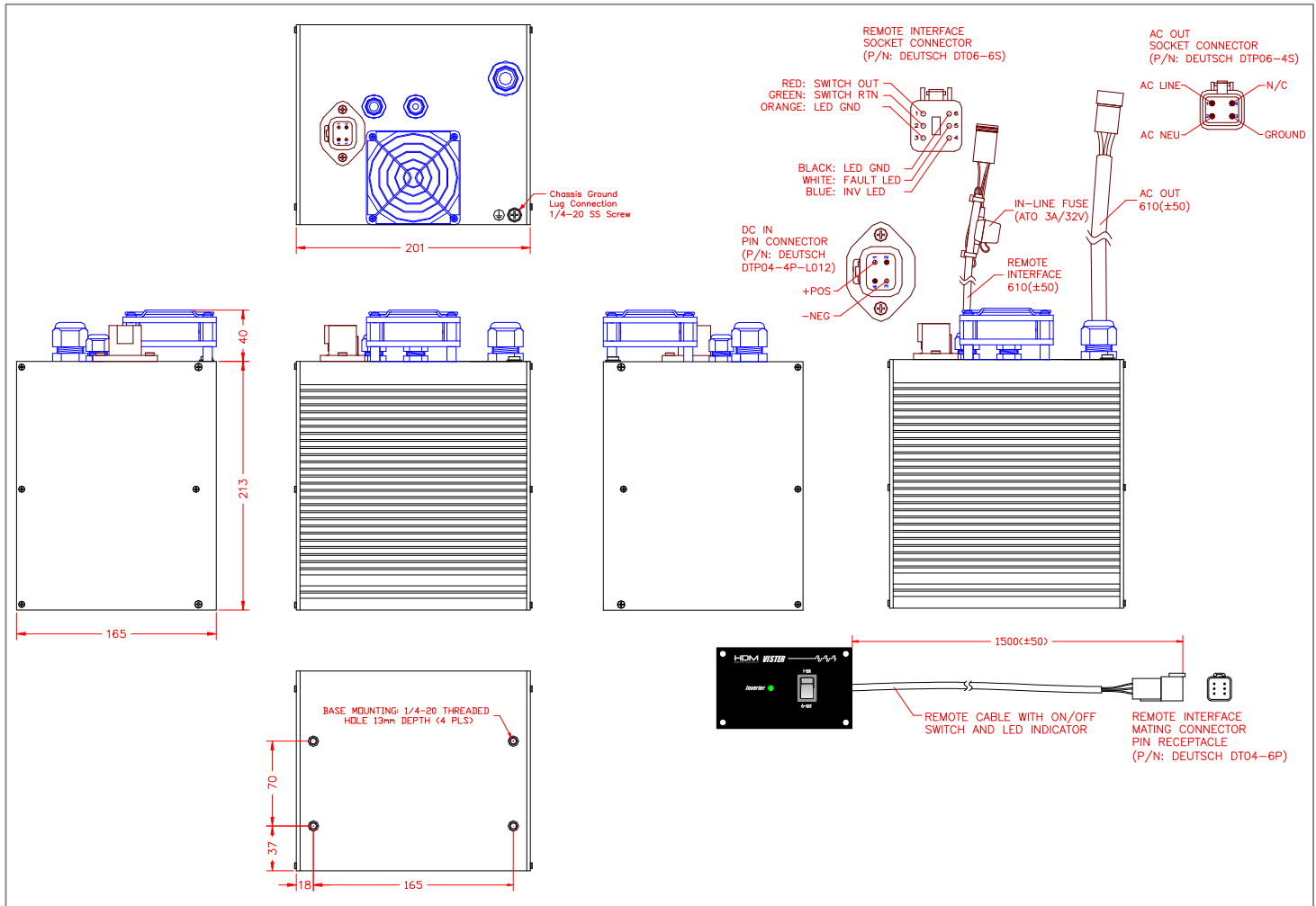
Operational & Protection Features

- Pure Sine-Wave Output
- 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

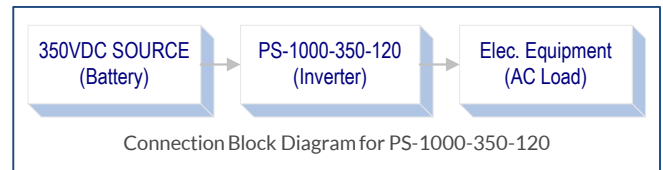
Applicable Performance Requirements

- Ruggedization for SAE J1455 Chassis Mount Components

Preliminary Pure Sine-Wave Inverter Diagram



MODEL	OUTPUT POWER	SURGE POWER	INPUT/OUTPUT VOLTAGE
PS-1000-350-120	1,000W	2,000W	350VDC / 120VAC
Add suffix after model name for optional features and accessories.			
CAN - CAN-Bus Interface			



All dimensions in millimeters unless otherwise specified.

Product appearance may vary by model or revision. Please consult with HDM Systems representatives.