

INMSW600B-24/115 Inverter



TECHNICAL REVISIONS - The appearance of products, including label information, may change depending on the date manufactured. Specifications typical at 25°C unless otherwise stated. Drawings may not be drawn to scale and are for reference only.

For more information regarding this product, visit the HDM Systems website at www.HDMSys.com or contact HDM Systems Technical Support at 1-617-562-4054.



PRODUCT SPECIFICATION

Doc. No. PSP-INMSW600B-24/115

Revision: 1

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PRODUCT INFORMATION

HDM's Modified Sine-Wave Inverter provides up to 600W of continuous AC power.

Features

- Compact Size, Lightweight, and High Efficiency
- High Surge Capacity
- Input Reverse Polarity Protection
- Input Low Voltage Auto Shutdown
- Auto-Recovery Function
- Output Overload Protection
- Output Short Circuit Protection
- High Temperature Protection
- Easy Installation

INVERTER MODE DESCRIPTION

INMSW600B inverter provides 600 watts of voltage and frequency-regulated AC power from a deep cycle battery bank. There is a low battery output circuit and up to 1200W of surge power available for starting electric motors. High efficiency ensures the longest possible battery life between recharges.

INVERTER SPECIFICATION

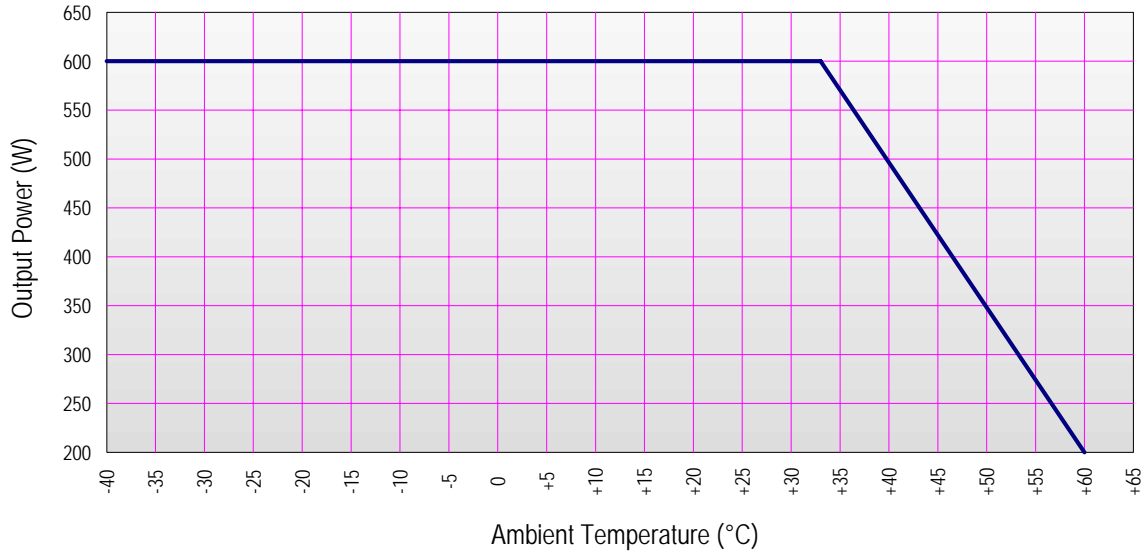
Output Waveform	Modified Sine-Wave
Output Power	600W Continuous
Output Surge Rating	1200W for 1 sec
Output Voltage	115($\pm 10\%$)V _{AC}
Output Frequency	60(± 4)Hz
Output Short Circuit Protection	Auto Shutdown Manual cycling of switch OFF-ON will restart inverter.
Input DC Voltage Range	22 ~ 30V _{DC}
Input Low Voltage Shutdown	< 21V _{DC}
Input Low Voltage Auto-Recovery	> 26.5V _{DC}
Input Overvoltage Shutdown	> 31V _{DC}
Input Overvoltage Auto-Recovery	< 30V _{DC}
High Temperature Shutdown	T _{Thermistor} $\geq +70^{\circ}\text{C}$
Reverse Polarity Protection	External Fuse
No Load Current Draw	< 0.5A _{DC}
Efficiency	90%

GENERAL SPECIFICATIONS

Isolation Voltage	1260V _{AC} (DC _{IN} ~AC _{OUT}) 1260V _{AC} (AC _{OUT} ~Case) 500V _{AC} (DC _{IN} ~Case)
Operating Temperature Range	-40 ~ +55°C
Storage Temperature Range	-40 ~ +75°C
DC Input Connection	8mm Positive and Negative Stud Posts
AC Output Connection	Receptacle Connector
Remote On/Off Connection	
Chassis Ground Lug Connection	8mm Ground Stud Post
External Fuse	ATC 20A/32V _{DC} x 2
Dimensions (LxWxH")	9.5 x 5.1 x 2.7"
Net Weight	3.0 lbs
Safety	CE
Cooling Method	Internal Exhaust Fan
Ventilation	Allow at least 1 inch clearance for adequate airflow

DERATING CURVE

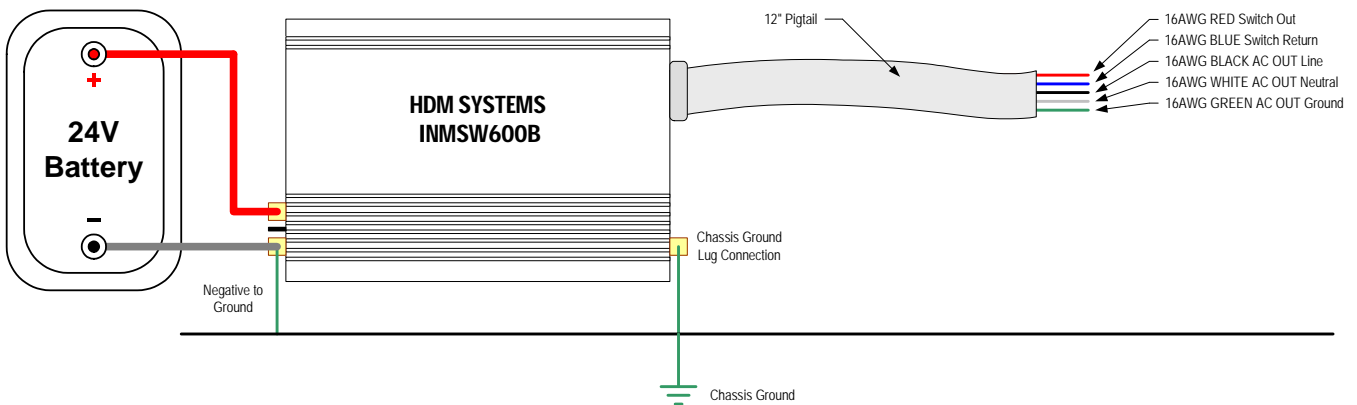
INMSW600B-24/115 Power Derating Curve



LED INDICATOR

Battery Energy Level	Battery Voltage	No Load	With Load
Full	> 26V _{DC}	Green	Green
Intermediate	24 ~ 26V _{DC}	Green	Orange
Low	< 24V _{DC}	Red	Red

EXTERNAL CONNECTOR





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PRODUCT WARRANTY AND SERVICE

Please do not remove the identification plate, which displays the model serial number. The warranty period for the INMSW600B is 1 year after purchase date.

HDM warrants this product against defects in material or workmanship to the original purchaser. No warranty will be provided on units that have not been paid for in full.

This warranty does not extend to products which have been opened, altered or repaired by persons other than those authorized by HDM, or to products which become defective due to acts of God, fire, sabotage, vandalism, contaminated fluids, negligence or failure to operate, house and maintain the product in accordance with the instructions provided in this manual. It is extremely important that the user strictly adhere to all installation instructions provided by HDM. Failure to do so will void the product warranty. Except for the foregoing expressed warranty, HDM makes no warranty, expressed or implied, including but not limited to, the warranty of merchantability or fitness for a particular purpose.

HDM will repair or replace the defective product in accordance with its best judgment. For warranty and out of warranty service, the buyer or installer must first contact HDM to obtain a Return Materials Authorization (RMA) number and shipping instructions before returning the product to the factory, at his or her expense. The user will need to provide proof of purchase for the HDM product.

If the product is under warranty, then repair or replacement costs will be paid by HDM. If the product is out of warranty, then the user must pay the repair or replacement costs. HDM will pay return freight charges, if the product is found to be defective, within the terms of the warranty. Repair or replacement of any unit does not extend the original warranty terms in any way.

This warranty does not cover repairs made necessary due to the product coming in contact with dirt, abrasives, moisture, rust, corrosion, varnish or other similar substance, or failure due to poor quality or poorly conditioned batteries.

HDM reserves the right with some models to supply an accredited installer with replacement part. This may allow the unit to become operable much quicker. In this case, HDM is not responsible for any costs of the installer's time or related expenses incurred. Replacement parts are sent at HDM's discretion. HDM will in no way be held responsible for any losses incurred due to the malfunctioning or failure of a product. Suitably qualified personnel must carry out wiring. Failure to do so will void warranty. If you have any questions about this warranty, please contact HDM Systems Corporation at:

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