



Tripp Lite IEC 60601-1 Power Inverter/Charger Specification And Data Sheet

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TRIPP·LITE

Tripp Lite IEC 60601-1 Power Inverter/Charger



150W Power Inverter/Charger for Mobile Medical Equipment, 120V – IEC 60601-1

MODEL NUMBER: HC150SL



Medical inverter/charger with IEC 60601-1 powers equipment used in healthcare facilities inside and outside patient care areas.

Features

- **150W 120V Medical-Grade Mobile Power Inverter/Charger for Medical Carts** This cost-effective hospital-cart power inverter/charger for medical equipment integrates seamlessly into your existing system. The HC150SL medical inverter battery charger is the ideal solution for providing safe, compliant power to mobile medical equipment used both inside and outside patient care areas.
- **Medical Inverter Provides IEC 60601-1 Compliance for All Connected Electronic Devices** An isolation transformer reduces the cumulative shock potential of connected equipment, which helps ensure IEC 60601-1 compliance for use in every sector of healthcare facilities, including patient care areas. This unit is compatible with both sealed lead acid (SLA) and Lithium Ion Phosphate (LiFePhos) batteries, so you can determine which technology best fits your needs. In addition to IEC 60601-1, this module meets NFPA, NEC and JCAHO standards.
- **Smart Charging System for Long Battery Life** The advanced three-stage charger recharges batteries faster and more safely than conventional chargers. An internal automatic transfer switch (ATS) lets the module power connected equipment while also recharging the battery at the same time. The HC150SL can provide multiple hours of AC power in standard configuration, though runtime varies depending on battery condition and load.
- **Combats Electromagnetic Interference That Can Harm Equipment** Various electromagnetic and radio sources found in virtually every medical facility can cause disruptive interference on the AC line. Known as EMI (electromagnetic interference) and RFI (radio frequency interference), this line noise is a common cause of performance problems and can lead to incremental hardware damage and data corruption. The HC150SL incorporates technology that filters out disruptive line noise so that it won't affect your equipment.
- **Superior Design for Simple Fuss-Free Use** The HC150SL's simple cart and fleet management lets you track usage data at a glance. free downloadable PowerAlert software automatically saves valuable patient data from loss or corruption if the cart is left unattended and battery power is depleted. The included USB cable connects the module to any cart-mounted thin client or laptop computer. An optional remote user interface (RUI; sold separately) displays output and battery status and includes on/off and alarm-mute switches.

Highlights

- All-in-one inverter/charger/controller powers equipment on mobile medical carts
- IEC 60601-1 compliance, approved for use within the patient care vicinity
- Approved to EN60601-1-2:2015, 4th Edition
- Works with both SLA and LiFePhos batteries to best fit your power requirements
- Internal ATS powers connected equipment and recharges battery simultaneously
- Free PowerAlert® software protects valuable patient data from loss or corruption

Applications

Power a computer, monitor, USB hub, barcode scanner or other equipment on a mobile medical cart used inside or outside patient care areas

Package Includes

- HC150SL 150W Power Inverter/Charger for Mobile Medical Equipment, 120V
- USB cable, 2 ft.

Rugged Construction Sure to Stand Up to Demanding Environments The compact steel housing features a USB communication port and one C13 AC outlet on a six-inch dangle for connecting a device's power cord. It is designed to endure in severe medical environments where reliable power is essential.

Specifications

OVERVIEW	
UPC Code	037332156792
INPUT	
Nominal Input Voltage(s) Supported	120V AC
UPS Input Connection Type	C14 inlet
Recommended Electrical Service	15A 120V
Input Connection Type	IEC
Voltage Compatibility (VAC)	120
Voltage Compatibility (VDC)	12
Input Cord Length (ft.)	0.5
Input Cord Length (m)	0.15

OUTPUT	
Frequency Compatibility	60 Hz
Pure Sine Wave Output	Yes
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	120V
Output Receptacles	(1) C13
Continuous Output Capacity (Watts)	150
Peak Output Capacity (Watts)	225
Individually Controllable Load Banks	No
BATTERY	
Full Load Runtime	Up to 6 hours typical runtime in standard configuration. Runtime varies depending on battery condition and load
Expandable Runtime	Yes
Expandable Battery Runtime	Yes
DC System Voltage (VDC)	12
Battery Pack Accessory (Optional)	Yes
Battery Charge	Equal to discharge time. Includes advanced 3-stage (9-20A) battery charger

USER INTERFACE, ALERTS & CONTROLS	
Front Panel LEDs	On Remote User Interface (RUI): Output AC Power, Battery Charge Level and Battery Charging Status (Sold Separately)
Switches	On Remote User Interface (RUI): On/Off Switch and Alarm-Mute Switch (Sold Separately)
Audible Alarm	Low Battery Alarm

SURGE / NOISE SUPPRESSION	
EMI / RFI AC Noise Suppression	Yes
PHYSICAL	
Material of Construction	Steel
Cooling Method	Fan
Shipping Dimensions (hwd / in.)	7.50 x 8.60 x 14.10
Shipping Dimensions (hwd / cm)	19.05 x 21.84 x 35.81
Shipping Weight (lbs.)	14.10
Shipping Weight (kg)	6.40
Unit Dimensions (hwd / in.)	3.500 x 11.500 x 6.000
Unit Dimensions (hwd / cm)	29.2 x 15.2 x 8.9
Unit Weight (lbs.)	14
Unit Weight (kg)	6.35
COMMUNICATIONS	
Network Monitoring Port	USB
Communications Interface	USB
STANDARDS & COMPLIANCE	
Product Certifications	IEC 60601-1; CAN/CSA-C22.2 No. 601.1; UL 1778
Product Compliance	RoHS
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year limited warranty

Optional Coverage	<u>WEXT1E</u> – 1 year extended warranty <u>WEXT2E</u> – 2 year extended warranty <u>WEXT3E</u> – 3 year extended warranty
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FAQ's

: What is the Tripp Lite IEC 60601-1 Power Inverter/Charger?

The Tripp Lite IEC 60601-1 Power Inverter/Charger is a versatile device designed to convert DC power from a battery source into AC power suitable for medical equipment and other sensitive applications.

What is IEC 60601-1 certification?

IEC 60601-1 is an international standard for the safety and performance of medical electrical equipment. Products with this certification meet strict safety requirements.

What types of devices can the IEC 60601-1 Power Inverter/Charger power?

The inverter/charger is intended for use with medical equipment and other critical applications that require clean and reliable AC power.

Can the IEC 60601-1 Power Inverter/Charger be used in non-medical applications?

While designed for medical applications, the inverter/charger might also be suitable for other sensitive electronics or situations requiring high-quality power.

What is the voltage and power output of the IEC 60601-1 Power Inverter/Charger?

The voltage and power output can vary based on the specific model, but the inverter typically provides clean and stable AC power at the required levels.

Can the inverter/charger operate on different battery types?

The compatibility with battery types can vary. Check the specifications of the specific model to determine which battery types are supported.

Is the IEC 60601-1 Power Inverter/Charger suitable for use in medical environments?

Yes, the inverter/charger is designed with medical-grade features to ensure reliable and clean power for

sensitive medical equipment.

Does the inverter/charger include surge protection and voltage regulation?

Many models of the IEC 60601-1 inverter/charger include surge protection and voltage regulation to protect connected devices.

Can the inverter/charger handle different input voltage levels?

The inverter/charger is typically designed to handle a range of input voltages, making it adaptable to various power sources.

Does the IEC 60601-1 Power Inverter/Charger include backup battery capabilities?

Some models might offer backup battery capabilities, allowing for uninterrupted power supply during outages.

How is the inverter/charger installed and integrated with medical equipment?

The installation process can vary based on the specific model and application. It often involves connecting the inverter/charger to the power source and medical equipment.

Is the IEC 60601-1 Power Inverter/Charger compliant with other relevant standards?

Besides IEC 60601-1, the inverter/charger might also comply with other standards for safety and performance, depending on the region and application.

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