

## Important Note

Please see below under **Resources > Product Literature** for the Power Cord Selector Worksheet for both input and output power cord selection.

## Isolator Series Dual-Voltage 115/230V 1000W 60601-1 Medical-Grade Isolation Transformer, C14 Inlet, 8 C13 Outlets

MODEL NUMBER: IS1000HGDV



Transformer with full CAN/ES/IEC/EN 60601-1 listing offers line isolation, step-up and step-down capabilities, and continuous noise filtering in protecting medical electronic equipment used in patient-care vicinities.

## Description

The IS1000HGDV Isolator® Series Dual-Voltage 115/230V 1000W 50/60Hz Medical-Grade Transformer with full CAN/ES/IEC/EN 60601-1 listing is ideal for protecting sensitive electronic equipment in patient-care vicinities. It can be configured for either step-up voltage, step-down voltage or pass-through voltage operation. Along with line isolation and continuous EMI/RFI line noise filtering, its surge protection rating of 240 joules suppresses excess voltage to prevent it from damaging connected equipment.

An internal low-impedance isolation transformer component offers 100% isolation from the input mains AC line. Faraday shield reduces the cumulative leakage current of the IS1000HGDV and connected equipment to levels less than 80 microamps, while removing utility switching transients and harmonics generated by other on-site loads and reducing the impact of utility-related surge conditions.

Transformer filtering provides continuous common-mode noise rejection with no wearable parts. The IS1000HGDV reduces 6000V IEEE 587 Category A and B ring wave and combination wave test surges to only 0.5V common mode.

Components connect to eight C13 outlets with fuse overload protection and a lighted on/off switch. The rugged all-metal unit housing ships ready for placement in any industrial, medical, office, network or audio/video environment. Requires a C13 AC input cord with country specific plug (sold separately)

## Features

**Full CAN/ES/IEC/EN 60601-1 Medical-Grade Listing with C14 Inlet and 8 C13 Outlets** Ideal for protecting sensitive electronic equipment in patient-care vicinities  
Reduces cumulative leakage current of Isolator and connected equipment to levels less than 80  $\mu$ A  
Inexpensive alternative to dedicated circuits and site electrical upgrades  
Rugged all-metal housing designed to withstand frequent use in busy environments  
Requires a C13 AC input cord with country specific plug (sold separately)

## Highlights

- Protects sensitive equipment from EMI/RFI line noise and surges
- Cumulative leakage current less than 80  $\mu$ A
- Automatically shuts down all outlets in case of overload
- Offers complete isolation from input AC mains power
- Ideal for use in any industrial, network or medical environment

## Package Includes

- IS1000HGDV Isolator Series Dual-Voltage 115/230V 1000W 60601-1 Medical-Grade Isolation Transformer
- (2) Fuse sets (115V and 230V operation)
- Input/output cable selector data sheet
- Owner's manual



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**Selectable 115/230V Input/Output Voltage Suitable for Most Applications** Step-up, step-down or pass-through voltage operation (input frequency always equals output frequency) Internal low-impedance toroidal isolation transformer with Faraday shield offers 100% isolation from mains AC power line Automatically shuts down all outlets in case of overload Ships ready for placement in any industrial, medical, office, network or audio/video environment

**Protects Connected Equipment from Dangerous Spikes, Surges and Line Noise** Line isolation, continuous noise filtering and 240 joules of AC surge protection Removes EMI/RFI noise, utility switching transients, load-generated harmonics and ground loops Floating AC output prevents noise coupling from noisy ground circuits Reduces 6000V IEEE 587 Category A and B ring wave and combination wave test surges to only 0.5V common mode

## Specifications

| OVERVIEW                          |                                                                                                                       |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| UPC Code                          | 037332200020                                                                                                          |
| Efficiency                        | 96%                                                                                                                   |
| Nominal Voltage / Frequency       | 115/230 VAC 50/60 HZ (Voltage Selected by Input Power Module Fuse Installation)                                       |
| VA / Watt Capacity                | 1000                                                                                                                  |
| Transformer Type                  | Medical Grade, Low Impedance Toroid- Line Isolation (Pass Through or Step UP or Step Down)                            |
| INPUT                             |                                                                                                                       |
| Nominal Input Voltage Description | 115/230 VAC (Selected by Input Power Module Fuse Installation) Operating Input Voltage Range 100-125Vac or 200-250VAC |
| Input Frequency                   | 50/60HZ                                                                                                               |
| Maximum Surge Amps                | 70A                                                                                                                   |
| Input Current                     | 10A @ 115V / 5A @ 230V                                                                                                |
| THDi                              | Less than 1%                                                                                                          |
| Power Input Receptacle            | IEC-320-C14                                                                                                           |
| OUTPUT                            |                                                                                                                       |
| Frequency Compatibility           | 50 / 60 Hz                                                                                                            |
| Output (Watts)                    | 1000                                                                                                                  |
| Output Receptacles                | (8) C13                                                                                                               |
| Output Nominal Voltage            | 115V/230V (Selected by Output Switch) Can also be step up or step down, Selected when Installing Fuses.               |
| Output Amp Capacity               | 8.7@ 115V/ 4.3@230V                                                                                                   |
| ISOLATION                         |                                                                                                                       |
| Output Isolation Transformer      | Toroid with AC output Floating with Respect to Earth Ground. POAG Connector and Earth Ground Stud.                    |
| Leakage Current                   | Max AC Leakage Current 80 (uA)                                                                                        |
| SURGE / NOISE SUPPRESSION         |                                                                                                                       |
| AC Suppression Joule Rating       | 240                                                                                                                   |



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|                                      |                                                                                                                                                                                           |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IEEE587 Cat. A Ringwave Let-Through  | Reduced to 0.5v Common Mode                                                                                                                                                               |
| Noise Suppression Rating             | 35-65 dB                                                                                                                                                                                  |
| <b>PHYSICAL</b>                      |                                                                                                                                                                                           |
| Color                                | White                                                                                                                                                                                     |
| Material of Construction             | Metal (Cabinet)                                                                                                                                                                           |
| Cooling Method                       | Convection                                                                                                                                                                                |
| Shipping Dimensions (hwd / in.)      | 10.24 x 14.96 x 17.13                                                                                                                                                                     |
| Shipping Dimensions (hwd / cm)       | 26.01 x 38.00 x 43.51                                                                                                                                                                     |
| Shipping Weight (lbs.)               | 32.32                                                                                                                                                                                     |
| Shipping Weight (kg)                 | 14.66                                                                                                                                                                                     |
| Unit Dimensions (hwd / in.)          | 5.130 x 9.840 x 11.810                                                                                                                                                                    |
| Unit Dimensions (hwd / cm)           | 13,03 x 24,99 x 30,00                                                                                                                                                                     |
| Unit Weight (lbs.)                   | 30.25                                                                                                                                                                                     |
| Unit Weight (kg)                     | 13.72                                                                                                                                                                                     |
| <b>ENVIRONMENTAL</b>                 |                                                                                                                                                                                           |
| Operating Temperature Range          | 32° to 104°F (0° to 40°C), Intended Application is in a controlled environment at approx. 77°F.                                                                                           |
| Storage Temperature Range            | 5° to 122°F (-15° to 50°C)                                                                                                                                                                |
| Operating Elevation                  | 0-10000 ft. (0-3000 m)                                                                                                                                                                    |
| Operating Humidity Range             | 5% to 95% RH (Non-Condensing)                                                                                                                                                             |
| <b>FEATURES &amp; SPECIFICATIONS</b> |                                                                                                                                                                                           |
| Over Current Protection              | 2 x 10A @ 115V and 2 x 5A at 230V ( Both Fuses included with Product as Accesories)                                                                                                       |
| <b>OPERATION</b>                     |                                                                                                                                                                                           |
| System Type Selections               | Input Voltage equals Output Voltage OR 120V input equals 230V output OR 230V Input equals 120V output - (Selectable when installing Fuses) Input Frequency always equals Output Frequency |
| <b>STANDARDS &amp; COMPLIANCE</b>    |                                                                                                                                                                                           |
| Product Certifications               | IEC 60601-1; CAN/CSA-C22.2 No. 60601-1 (Canada); NOM (Mexico)                                                                                                                             |
| Product Compliance                   | RoHS; CE (Europe)                                                                                                                                                                         |
| <b>WARRANTY &amp; SUPPORT</b>        |                                                                                                                                                                                           |
| Product Warranty Period (Worldwide)  | 2-year limited warranty                                                                                                                                                                   |



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