

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 1800W 60601-1 Medical-Grade Isolation Transformer, C20 Inlet, 8 C13 Outlets

MODEL NUMBER: IS1800HGDV



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 IS1800HGDV Isolator® Series Dual-Voltage 115/230V 1800W 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 IS1800HGDV and connected equipment to levels less than 100 microamps, while removing utility switching transients and harmonics generated by other on-site loads and reducing the impact of utility or lightning related surge conditions.

Transformer filtering provides continuous common-mode noise rejection with no wearable parts. The IS1800HGDV 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 C20-to-C19 AC input cord (sold separately).

### Highlights

- Protects sensitive equipment from EMI/RFI line noise and surges
- Cumulative leakage current less than 100  $\mu$ 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

- IS1800HGDV Isolator Series Dual-Voltage 115/230V 1800W 60601-1 Medical-Grade Isolation Transformer
- (2) Fuse sets (115V and 230V operation)
- Input/output cable selector data sheet
- Owner's manual

## Features

### Full CAN/ES/IEC/EN 60601-1 Medical-Grade Listing with C20 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 100  $\mu$ A
- Inexpensive alternative to dedicated circuits and site electrical upgrades
- Rugged all-metal housing designed to withstand frequent use in busy environments
- C20-to-C19 AC input cord required (sold separately)

### 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	037332200037
Efficiency	96%
Nominal Voltage / Frequency	115/230 VAC 50/60 HZ (Voltage Selected by Input Power Module Fuse Installation)
Over Current Protection	2X15A @ 115V and 2X8A at 230V ( Both Fuses included with Product as Accesories)
VA / Watt Capacity	1800
Transformer Type	Medical Grade, Low Impedence Toroid- Line Isolation (Pass Through or Step UP or Step Down)
OUTPUT	
Output Voltage Regulation (Line Mode)	3.6%
Output Receptacles	(8) C13
Output (VA)	1800
Output (Watts)	1800



Output Nominal Voltage	115V/230V (Selected by Output Switch) Can also be step up or step down, Selected when Installing Fuses.
<b>INPUT</b>	
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	100A
Input Current	15A @ 115V / 8A @ 230V
THDi	Less than 1%
Power Input Receptacle	IEC-320-C14
<b>SURGE / NOISE SUPPRESSION</b>	
AC Suppression Joule Rating	240
IEEE587 Cat. A Ringwave Let-Through	Reduced to 0.5v Common Mode
Noise Suppression Rating	35-65db
<b>ISOLATION</b>	
Output Isolation Transformer	Toroid with AC output Floating with Respect to Earth Ground
Leakage Current	Max AC Leakage Current 80 (uA)
<b>PHYSICAL</b>	
Shipping Dimensions (hwd / in.)	11.02 x 17.52 x 19.69
Shipping Dimensions (hwd / cm)	27.99 x 44.50 x 50.01
Shipping Weight (lbs.)	51.21
Shipping Weight (kg)	23.23
Unit Dimensions (hwd / in.)	5.51 x 11.81 x 13.78
Unit Dimensions (hwd / cm)	14 x 30 x 35
Unit Weight (lbs.)	51.21
Unit Weight (kg)	23.23
Cooling Method	Convection
Material of Construction	Sheet Metal Cabinet
Color	White
<b>ENVIRONMENTAL</b>	
Operating Temperature Range	0 C-40 C(32F to 104F), Intended Application is in a controlled environment at approx. 25 C.
Storage Temperature Range	-15 C to 50 C (5F to 122F)
Operating Elevation (m)	0-3000M (0-10,000 Ft)



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Operating Humidity Range	5% to 95% RH (Non-Condensing)
<b>CERTIFICATIONS</b>	
Certifications	Tested to ANSI/AAMI ES60601-1:2005+A2+A1, IEC60601-1 3RD EDITION +A1, cAN/CSA-C22.2 NO. 60601-1:14, CE, NOM
<b>WARRANTY</b>	
Product Warranty Period (Worldwide)	2-year limited warranty
<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

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