

Isolator Series Dual-Voltage 115/230V 300W 60601-1 Medical-Grade Isolation Transformer, C14 Inlet, 4 C13 Outlets

MODEL NUMBER: **AL-85519**



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 AL-85519 Isolator[®] Series Dual-Voltage 115/230V 300W 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 AL-85519 and connected equipment to levels less than 50 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 AL-85519 reduces 6000V IEEE 587 Category A and B ring wave and combination wave test surges to only 0.5V common mode.

Components connect to four 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 C14-to-C13 AC input cord (sold separately).

Highlights

- Protects sensitive equipment from EMI/RFI line noise and surges
- Cumulative leakage current less than 50 μ 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

- AL-85519 Isolator Series Dual-Voltage 115/230V 300W 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 C14 Inlet and 4 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 50 μ A
- Inexpensive alternative to dedicated circuits and site electrical upgrades
- Rugged all-metal housing designed to withstand frequent use in busy environments
- C14-to-C13 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 Carton UPC# | 037332199980 |
| Nominal Voltage / Frequency | 115/230 VAC 50/60 HZ (Voltage Selected by Input Power Module Fuse Installation) |
| Over Current Protection | 2X 3.15A @ 115V and 2X 1.6A at 230V (Both Fuses included with Product as Accesories) |
| VA / Watt Capacity | 300 |
| Transformer Type | Medical Grade, Low Impedence Toroid- Line Isolation (Pass Through or Step UP or Step Down) |
| OUTPUT | |
| Output Voltage Regulation (Line Mode) | 5.2% |
| Output Receptacles | (4) C13 |
| Output (VA) | 300 |
| Output (Watts) | 300 |
| Output Nominal Voltage | 115V/230V (Selected by Output Switch) Can also be step up or step down, Selected when Installing Fuses. |

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|-------------------------------------|---|
| Outlet Details | Qty 4 Receptacles |
| 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 | 3.15A @ 115V / 1.6A @ 230V |
| THDi | Less than 1% |
| Power Input Receptacle | IEC-320-C14 |
| SURGE / NOISE SUPPRESSION | |
| AC Suppression Joule Rating | 240 |
| IEEE587 Cat. A Ringwave Let-Through | Reduced to 0.5v Common Mode |
| Noise Suppression Rating | 35-65db |
| ISOLATION | |
| Output Isolation Transformer | Toroid with AC output Floating with Respect to Earth Ground. POAG and Earth Ground Studs. |
| Leakage Current | Max AC Leakage Current 50 (uA) |
| PHYSICAL | |
| Shipping Dimensions (hwd / in.) | 8.270 x 9.840 x 12.800 |
| Shipping Dimensions (hwd / cm) | 21.01 x 24.99 x 32.51 |
| Shipping Weight (lbs.) | 13.6200 |
| Shipping Weight (kg) | 6.18 |
| Unit Dimensions (hwd / in.) | 4.33 x 5.91 x 7.87 |
| Unit Dimensions (hwd / cm) | 11 x 15 x 20 |
| Unit Weight (lbs.) | 12.35 |
| Unit Weight (kg) | 5.60 |
| Cooling Method | Convection |
| Material of Construction | Sheet Metal Cabinet |
| Color | White |
| ENVIRONMENTAL | |
| 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) |
| CERTIFICATIONS | |
| 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 |
| WARRANTY | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |
| OPERATION | |
| 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 |

