REOMED II

Isolation transformers – Version 3.1

Transformers for medical technology

The REOMED II isolation transformer is a reliable leakage current limiter in medical systems.

Voltage-resistant materials – combined with high-quality processing – provide safe isolation from the mains input side. The inbuilt isolation transformers are designed for low internal energy loss, resulting in very low no-load losses. With regards to the input power of REOMED II, values of <1 % have been reached.

A circuit breaker ensures that the transformers are protected against overload and short-circuiting on both the input and output sides.

The mains input side must be operated with a mains switch with a green light. A two-pole circuit breaker on the mains side and a one-pole circuit breaker on the output side provide protection.

There is no need to keep replacement fuses available, and there is also no risk of confusion as a result.

Furthermore, a temperature switch is integrated into the power isolation transformer, providing additional safety if there is no internal cooling system.

REOMED II 660, 1120, 1560, 2000



Norm IEC 60601-1 (ed 3.1) / NRTL
Norm IEC 60601-1-2 (ed 4.0)

Advantages

- Small dimensions
- Sturdy aluminium housing
- Mains switch with green light
- Low overall weight
- Integrated circuit breakers
- Plug connections as per IEC 60320
- IEC 60601-1:2005/ AMD1:2012; ANSI/ AAMIES 60601-1:2005/ CR/ 2012 CAN/ CSA C22.2 No. 60601-1:14 (Medizintechnik) USA und Canada IEC 60601-1-2:2014 (Partly); EN/ IEC 61000-3-2:2014; EN/ IEC 61000-3-3:2013

Technical data

REOMED II 660	
Nominal input power [VA]	660
Input voltage [V]	230
Output voltage [V]	230
Mains frequency [Hz]	50/60
Input power plug	1 piece IEC/EN 60320 (C14) UL 498, CSA C22.2 no. 42
Output power plug	6 piece IEC/EN60320-2-2 (C13) UL 498 CSA C22.2 no. 42
Power switch	yes
Circuit breaker [A]	4
Sec. circuit breaker [A]	3
Thermal overload protection	yes
Temperature sensor	yes, in connection with insulation monitor
Max. output current [A]	2.8
Inrush current limiter	NTC (option 10) or electronic (option 50)
Earth leakage current 254V [µA]	<500
Insulation / protection resistance [Ω]	>2M/<0.1
Test voltage	primary-secondary: 4kV AC; primary-housing / secondary-housing: 1.5kV AC
Protection class	I
Protection IP	IP20
Ambient temperature [°C]	±0..40
Ambient air humidity, relative [%]	30..75
Max. altitude [m]	3000
Equi-potential earthing (DIN42801)	POAG - S6/15
Housing, Surface	Powder-coated metal - RAL 7035
Approval / principles /Conformity CE	IEC60601-1:2005/AMD1:2012; ANSI/AAMIES 60601-1:2005/CR/2012 CAN/CSA C22.2 No. 60601-1:14 (medical technology) USA and Canada IEC60601–1-2:2014(Partly); EN/IEC 61000-3-2:2014; EN 61000-3-3:2013
Accessories (Options)	
Power line	Country-specific
Pull-off protection	Mechanic retaining kit (1x trigger safety lock, 4x zinc plated plastic head slotted drews)
Mounting rails	Mounting kit (2x mounting rails, 4x hexagon screw)

Dimensions in mm

REOMED II 660				
Type	**H [mm]**	**B [mm]**	**T [mm]**	**Weight [kg]**
REOMED II 660	115 (122*)	235	325	7,7

* With rubber feet

All devices possess a starting current limiter (NTC or electronic), potential compensation as per DIN 42801, a primary power cable and a protective temperature limiter. Devices can be fixed using wall, table or floor mounting.

Technical data

REOMED II 1120	
Nominal input power [VA]	1120
Input voltage [V]	230
Output voltage [V]	230
Mains frequency [Hz]	50/60
Input power plug	1 piece IEC/EN 60320 (C14) UL 498, CSA C22.2 no. 42
Output power plug	6 piece IEC/EN60320-2-2 (C13) UL 498 CSA C22.2 no. 42
Power switch	yes
Circuit breaker [A]	6
Sec. circuit breaker [A]	5
Thermal overload protection	yes
Temperature sensor	yes, in connection with insulation monitor
Max. output current [A]	4.7
Inrush current limiter	NTC (option 10) or electronic (option 50)
Earth leakage current 254V [µA]	<500
Insulation / protection resistance [Ω]	>2M/<0.1
Test voltage	primary-secondary: 4kV AC; primary-housing / secondary-housing: 1.5kV AC
Protection class	I
Protection IP	IP20
Ambient temperature [°C]	±0..40
Ambient air humidity, relative [%]	30..75
Max. altitude [m]	3000
Equi-potential earthing (DIN42801)	POAG - S6/15
Housing, Surface	Powder-coated metal - RAL 7035
Approval / principles /Conformity CE	IEC60601-1:2005/AMD1:2012; ANSI/AAMIES 60601-1:2005/CR/2012 CAN/CSA C22.2 No. 60601-1:14 (medical technology) USA and Canada IEC60601–1-2:2014(Partly); EN/IEC 61000-3-2:2014; EN 61000-3-3:2013
Accessories (Options)	
Power line	Country-specific
Pull-off protection	Mechanic retaining kit (1x trigger safety lock, 4x zinc plated plastic head slotted drews)
Mounting rails	Mounting kit (2x mounting rails, 4x hexagon screw)

Dimensions in mm

REOMED II 1120				
Type	**H [mm]**	**B [mm]**	**T [mm]**	**Weight [kg]**
REOMED II 1120	115 (122*)	235	325	13,0

* With rubber feet

All devices possess a starting current limiter (NTC or electronic), potential compensation as per DIN 42801, a primary power cable and a protective temperature limiter. Devices can be fixed using wall, table or floor mounting.

Technical data

REOMED II 1580	
Nominal input power [VA]	1580
Input voltage [V]	230
Output voltage [V]	230
Mains frequency [Hz]	50/60
Input power plug	1 piece IEC/EN 60320 (C14) UL 498, CSA C22.2 no. 42
Output power plug	6 piece IEC/EN60320-2-2 (C13) UL 498 CSA C22.2 no. 42
Power switch	yes
Circuit breaker [A]	8
Sec. circuit breaker [A]	7
Thermal overload protection	yes
Temperature sensor	yes, in connection with insulation monitor
Max. output current [A]	6.7
Inrush current limiter	NTC (option 10) or electronic (option 50)
Earth leakage current 254V [µA]	<500
Insulation / protection resistance [Ω]	>2M/<0.1
Test voltage	primary-secondary: 4kV AC; primary-housing / secondary-housing: 1.5kV AC
Protection class	I
Protection IP	IP20
Ambient temperature [°C]	±0..40
Ambient air humidity [%]	30..75
Max. altitude [m]	3000
Equi-potential earthing (DIN42801)	POAG - S6/15
Housing, Surface	Powder-coated metal - RAL 7035
Approval / principles /Conformity CE	IEC60601-1:2005/AMD1:2012; ANSI/AAMIES 60601-1:2005/CR/2012 CAN/CSA C22.2 No. 60601-1:14 (medical technology) USA and Canada IEC60601–1-2:2014(Partly); EN/IEC 61000-3-2:2014; EN 61000-3-3:2013
Accessories (Options)	
Power line	Country-specific
Pull-off protection	Mechanic retaining kit (1x trigger safety lock, 4x zinc plated plastic head slotted drews)
Mounting rails	Mounting kit (2x mounting rails, 4x hexagon screw)

Dimensions in mm

REOMED II 1580				
Type	**H [mm]**	**B [mm]**	**T [mm]**	**Weight [kg]**
REOMED II 660	115 (122*)	235	325	17,6

* With rubber feet

All devices possess a starting current limiter (NTC or electronic), potential compensation as per DIN 42801, a primary power cable and a protective temperature limiter. Devices can be fixed using wall, table or floor mounting.