

REOMED I

Isolation transformers – Version 3.1

Medical transformers

Medical systems must safely meet the leakage current requirements specified in the standard – if several devices are switched together, the overall leakage current increases accordingly.

The TÜV-certified REOMED isolation transformers are proven and reliable equipment for use with all electrical systems in a medical environment – they limit the leakage current and thus help to ensure patients' safety.

REOMED isolation transformers are characterised by their very low magnetic stray field, high level of safety, and reliability, whilst also providing high efficiency and easy connectivity.

In addition to the standard range, these transformers may be constructed in accordance with customer requirements and enhanced by adding an electronic starting current limiter, surge protection and a mains filter.

Advantages

- Wide range of options
- Low weight
- Short-circuit and overload protection
- Integrated starting current limiter
- Sturdy aluminium housing
- Equipotential earthing pin as per DIN 42801
- 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 (medical technology) USA and Canada IEC 60601-1-2:2014 (partly); EN/ IEC 61000-3-2:2014; EN/ IEC 61000-3-3:2013

REOMED I 300



REOMED I 300 W



REOMED I 600



REOMED I 800 W



REOMED I 1000



REOMED I 1300, 1600, 2200



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

Technical data

REOMED I 300						
Nominal input power [VA]	300	300	300	300	300	300
Input voltage [V]	115/230	230	115	115	230	115/230
Output voltage [V]	230	230	230	115	115	115/230
Mains frequency [Hz]	50/60	50/60	50/60	50/60	50/60	50/60
Input power plug	1 piece IEC/EN 60320 (C14) UL 498, CSA C22.2 no. 42					
Output power plug	4 piece IEC/EN60320-2-2 (C13) UL 498 CSA C22.2 no. 42					
Power switch	yes	yes	yes	yes	yes	yes
Input fuse [A]	T3.15 / T1.60	T1.60	T3.15	T3.15	T1.60	T3.15 / T1.60
Thermal overload protection [°C]	120	120	120	120	120	120
Max. output current [A]	1.30	1.30	1.30	2.60	2.60	2.60/1.30
Output fuse [A]	-	-	-	-	-	-
Inrush current limiter	yes	yes	yes	yes	yes	yes
Standard	NTC	NTC	NTC	NTC	NTC	NTC
Earth leakage current 127/254V [µA]	<300/500	<300/500	<300/500	<300/500	<300/500	<300/500
Insulation / protection resistance [Ω]	>2M/<0.1	>2M/<0.1	>2M/<0.1	>2M/<0.1	>2M/<0.1	>2M/<0.1
Test voltage	primary-secondary: 4kV AC; primary-housing / secondary-housing: 1.5kV AC					
Protection class	I	I	I	I	I	I
Protection IP	IP20	IP20	IP20	IP20	IP20	IP20
Ambient temperature [°C]	±0..40	±0..40	±0..40	±0..40	±0..40	±0..40
Ambient air humidity, relative [%]	30..75	30..75	30..75	30..75	30..75	30..75
Max. altitude [m]	3000	3000	3000	3000	3000	3000
Equi-potential earthing (DIN42801)	POAG - S6/15					
Housing, Surface	Powder-coated metal - RAL 7035					
Approval / principles /Conformity CE	EC60601-1:2005/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/IEC 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 draws)					
Mounting rails	Mounting kit (2x mounting rails, 4x hexagon screw)					

Dimensions in mm

REOMED I 300				
Type	H [mm]	B [mm]	T [mm]	Weight [kg]
REOMED I 300	85 (90*)	150	240	4,5

* 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 I 300 W	
Nominal input power [VA]	300
Input voltage [V]	100-130 / 200-250
Output voltage [V]	100-130 / 200-250
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
Input fuse [A]	T3.15 / T1.60
Thermal overload protection [°C]	120
Max. output current [A]	3.00-2.30 / 1.50-1.20
Output fuse [A]	-
Inrush current limiter	yes
Standard	electronic
Earth leakage current 127/254V [μA]	<300/500
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/IEC 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 draws)
Mounting rails	Mechanic retaining kit (2x mounting rails, 4x hexagon screw)

Dimensions in mm

REOMED I 300 W				
Type	H [mm]	B [mm]	T [mm]	Weight [kg]
REOMED I 300W	95 (100*)	170	270	7,5

* 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 I 600						
Nominal input power [VA]	600	600	600	600	600	600
Input voltage [V]	115/230	230	115	115	230	115/230
Output voltage [V]	230	230	230	115	115	115/230
Mains frequency [Hz]	50/60	50/60	50/60	50/60	50/60	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	yes	yes	yes	yes	yes
Input fuse [A]	T6.3 / T3.15	T3.15	T6.3	T6.3	T3.15	T6.3 / T3.15
Thermal overload protection [°C]	120	120	120	120	120	120
Max. output current [A]	2.60	2.60	2.60	5.20	5.20	5.20 / 2.60
Output fuse [A]	-	-	-	-	-	-
Inrush current limiter	yes	yes	yes	yes	yes	yes
Standard	NTC	NTC	NTC	NTC	elektronisch	elektronisch
Earth leakage current 127/254V [µA]	<300/500	<300/500	<300/500	<300/500	<300/500	<300/500
Insulation / protection resistance [Ω]	>2M/<0.1	>2M/<0.1	>2M/<0.1	>2M/<0.1	>2M/<0.1	>2M/<0.1
Test voltage	primary-secondary: 4kV AC; primary-housing / secondary-housing: 1.5kV AC					
Protection class	I	I	I	I	I	I
Protection IP	IP20	IP20	IP20	IP20	IP20	IP20
Ambient temperature [°C]	±0..40	±0..40	±0..40	±0..40	±0..40	±0..40
Ambient air humidity, relative [%]	30..75	30..75	30..75	30..75	30..75	30..75
Max. altitude [m]	3000	3000	3000	3000	3000	3000
Equi-potential earthing (DIN42801)	POAG - S6/1					
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/IEC 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 draws)					
Mounting rails	Mounting kit (2x mounting rails, 4x hexagon screw)					

Dimensions in mm

REOMED I 600				
Type	H [mm]	B [mm]	T [mm]	Weight [kg]
REOMED I 600	95 (100*)	170	270	7,5

* 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 I 800 W	
Nominal input power [VA]	800
Input voltage [V]	100-130 / 200-250
Output voltage [V]	100-130 / 200-250
Mains frequency [Hz]	50/60
Input power plug	1 piece IEC/EN 60320 (C14) UL 498, CSA C22.2 no. 42
Output power plug	9 piece IEC/EN60320-2-2 (C13) UL 498 CSA C22.2 no. 42
Power switch	yes
Input fuse [A]	T8/T4
Thermal overload protection [°C]	120
Max. output current [A]	8.00-6.16 / 4.00-3.20
Output fuse [A]	-
Inrush current limiter	yes
Standard	electronic
Earth leakage current 127/254V [µA]	<300/500
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	EC60601-1:2005/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/IEC 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 draws)
Mounting rails	Mounting kit (2x mounting rails, 4x hexagon screw)

Dimensions in mm

REOMED I 800 W				
Type	H [mm]	B [mm]	T [mm]	Weight [kg]
REOMED I 800W	100 (105*)	220	300	12,5

* 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 I 1000						
Nominal input power [VA]	1000	1000	1000	1000	1000	1000
Input voltage [V]	115/230	230	115	115	230	115/230
Output voltage [V]	230	230	230	115	115	115/230
Mains frequency [Hz]	50/60	50/60	50/60	50/60	50/60	50/60
Input power plug	1 piece IEC/EN 60320 (C14) UL 498, CSA C22.2 no. 42					
Output power plug	9 piece IEC/EN60320-2-2 (C13) UL 498 CSA C22.2 no. 42					
Power switch	yes	yes	yes	yes	yes	yes
Input fuse [A]	T10 / T5	T5	T10	T10	T5	T10 / T5
Thermal overload protection [°C]	120	120	120	120	120	120
Max. output current [A]	4.35	4.35	4.35	8.70	8.70	8.70 / 4.35
Output fuse [A]	-	-	-	-	-	-
Inrush current limiter	yes	yes	yes	yes	yes	yes
Standard	electronic	electronic	electronic	electronic	electronic	electronic
Earth leakage current 127/254V [µA]	<300/500	<300/500	<300/500	<300/500	<300/500	<300/500
Insulation / protection resistance [Ω]	>2M/<0.1	>2M/<0.1	>2M/<0.1	>2M/<0.1	>2M/<0.1	>2M/<0.1
Test voltage	primary-secondary: 4kV AC; primary-housing / secondary-housing: 1.5kV AC					
Protection class	I	I	I	I	I	I
Protection IP	IP20	IP20	IP20	IP20	IP20	IP20
Ambient temperature [°C]	±0..40	±0..40	±0..40	±0..40	±0..40	±0..40
Ambient air humidity, relative [%]	30..75	30..75	30..75	30..75	30..75	30..75
Max. altitude [m]	3000	3000	3000	3000	3000	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/IEC 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 draws)					
Mounting rails	Mounting kit (2x mounting rails, 4x hexagon screw)					

Dimensions in mm

REOMED I 1000				
Type	H [mm]	B [mm]	T [mm]	Weight [kg]
REOMED I 1000	100 (105*)	220	300	12,5

* 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 I 1300	
Nominal input power [VA]	1300
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	9 piece IEC/EN60320-2-2 (C13) UL 498 CSA C22.2 no. 42
Power switch	yes
Input fuse [A]	T6.3
Thermal overload protection [°C]	120
Max. output current [A]	5.50
Output fuse [A]	-
Inrush current limiter	yes
Standard	electronic
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/IEC 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 draws)
Mounting rails	Mounting kit (2x mounting rails, 4x hexagon screw)

Dimensions in mm

REOMED I 1300				
Type	H [mm]	B [mm]	T [mm]	Weight [kg]
REOMED I 1300	126 (130*)	235	325	13,5

* 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 I 1600	
Nominal input power [VA]	1600
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	9 piece IEC/EN60320-2-2 (C13) UL 498 CSA C22.2 no. 42
Power switch	yes
Input fuse [A]	T8
Thermal overload protection [°C]	120
Max. output current [A]	6.80
Output fuse [A]	-
Start-up current limiter	yes
Standard	electronic
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/IEC 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 draws)
Mounting rails	Mounting kit (2x mounting rails, 4x hexagon screw)

Dimensions in mm

REOMED I 1600				
Type	H [mm]	B [mm]	T [mm]	Weight [kg]
REOMED I 1600	125 (130*)	235	325	15,0

* 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.