



## United Medical Hospital System LTD

### Medical Isolation Transformer Technical Data

All International Standards Specifics Medical Isolation Power Systems as a Basic Requirement for Important Hospital Departments Specially Operation Theatres, ICU, Recovery and CCU.

Rated Power	4kVA
Rated frequency (Hz) fn	50/60
Rated input voltage (Vac)	230
Rated input current (In)	17.4
Rated output voltage (Vac)	115-0-115
Rated output current (In)	17.4
Inrush current $I_E$	$\leq 8I_n$
Leakage current (mA)	$< 0.5$
No – load input current $I_0$	$< 3\%$
No – load output voltage $U_0$	$< 235$
Short circuit voltage	$< 3\%$
R primary $\Omega$ (20°C)	0.131
R secondary $\Omega$ (20°C)	0.147
Insulation class	F
Ambient temperature (°C)	40
Temperature rise (°C)	70
Maximum temperature (°C)	110
Fe losses (W) at 110°C	38.3
Winding losses (W) at 110°C	120.3
Efficiency %	96.2
Noise level (dB)	40



Isolation Transformers Protects the Patients and Considered as a life – Support Equipment.



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Rated Power	6.3kVA
Rated frequency (Hz) fn	50/60
Rated input voltage (Vac)	230
Rated input current (In)	27.4
Rated output voltage (Vac)	115-0-115
Rated output current (In)	27.4
Inrush current $I_E$	$\leq 8I_n$
Leakage current (mA)	<0.5
No – load input current $I_0$	<3%
No – load output voltage $U_0$	<233
Short circuit voltage	<3%
R primary $\Omega$ (20°C)	0.088
R secondary $\Omega$ (20°C)	0.112
Insulation class	F
Ambient temperature (°C)	40
Temperature rise (°C)	70
Maximum temperature (°C)	110
Fe losses (W) at 110°C	50.0
Winding losses (W) at 110°C	200.00
Efficiency %	96.2
Noise level (dB)	40



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Rated Power	8kVA
Rated frequency (Hz) fn	50/60
Rated input voltage (Vac)	230
Rated input current (In)	34.8
Rated output voltage (Vac)	115-0-115
Rated output current (In)	34.8
Inrush current $I_E$	$\leq 8I_n$
Leakage current (mA)	<0.5
No – load input current $I_0$	<3%
No – load output voltage $U_0$	<233
Short circuit voltage	<3%
R primary $\Omega$ (20°C)	0.066
R secondary $\Omega$ (20°C)	0.072
Insulation class	F
Ambient temperature (°C)	40
Temperature rise (°C)	70
Maximum temperature (°C)	110
Fe losses (W) at 110°C	50.0
Winding losses (W) at 110°C	220.00
Efficiency %	95.8
Noise level (dB)	40



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Rated Power	10VA
Rated frequency (Hz) $f_n$	50/60
Rated input voltage (Vac)	230
Rated input current (In)	43.5
Rated output voltage (Vac)	115-0-115
Rated output current (In)	43.5
Inrush current $I_E$	$\leq 8I_n$
Leakage current (mA)	$< 0.5$
No – load input current $I_0$	$< 3\%$
No – load output voltage $U_0$	$< 233$
Short circuit voltage	$< 3\%$
R primary $\Omega$ (20°C)	0.054
R secondary $\Omega$ (20°C)	0.062
Insulation class	F
Ambient temperature (°C)	40
Temperature rise (°C)	70
Maximum temperature (°C)	110
Fe losses (W) at 110°C	55.6
Winding losses (W) at 110°C	289.4
Efficiency %	96.7
Noise level (dB)	40



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