225 WATTS

FEATURES:

- 2 Year Warranty
- Universal 85-264V Input
- 1-4 Tightly-Regulated Outputs
- High Efficiency
- 0-70°C Operating Temperature
- IEC 60601-1 3rd ed. Medical Cert.
- Compact 4.75 x 8.0" x 2.0" Size IEC 62368-1 2nd ed. Certification
 - IEC 60601-1-2 4th ed. EMC
 - Class B Emissions per EN55011/32
 - Optional Remote Inhibit/Enable
 - Optional Power Fail Warning
 - Optional Perforated Cover



SAFETY SPECIFICATIONS

CTUs File E137708/E140259 **Underwriters Laboratories**

CHASSIS/COVER

UL 62368-1:2014, 2nd Edition CAN/CSA-C22.2 No. 62368-1-14, 2nd Edition AAMI/ANSI ES60601-1:2005/(R) 2012 CAN/CSA-C22.2 No. 60601-1:2014

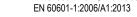
OPEN CHASSIS



CB Reports/Certificates (including all IEC 62368-1:2014, 2nd Edition National and Group Deviations) IEC 60601-1:2005/A1:2012



EN 62368-1:2014, 2nd Edition TUV SUD America





Low Voltage Directive (2014/35/EU of February 2014) RoHS Directive (Recast) (2015/863/EU of March 2015)

Electrical Equipment (Safety) Regulations 2016 SI No. 1101 Restriction of the Use of Certain Hazardous Substances in EEE Regulations 2012 SI No. 3032 + 2019 SI No.492

MODEL LISTING

MODEL NO.	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT 4
CE-225-4001 +3.3V/25A(+5V/8A(16)	+12V/2A	-12V/2A
CE-225-4002 +5V/25A ₍₁₆₎		+3.3V/8A(16)	+12V/2A	-12V/2A
CE-225-4003 +5V/25A(16)		+3.3V/8A(16)	+15V/2A	-15V/2A
CE-225-4004 +5V/25A(16)		-5.2V/8A(16)	+12V/2A	-12V/2A
CE-225-4005	+5V/25A(16)	-5.2V/8A(16)	+15V/2A	-15V/2A
CE-225-4006	+5V/25A(16)	+12V/8A(16)	+12V/2A	-12V/2A
CE-225-4007	+5V/25A(16)	+12V/8A(16)	+15V/2A	-15V/2A
CE-225-4008 +5V/25A ₍₁₆₎		+12V/8A(16)	+9V/2A	-9V/2A
CE-225-4101 +5V/25A ₍₁₆₎		+24V/8A(16)	+12V/2A	-12V/2A
CE-225-4102 +5V/25A ₍₁₆₎		+24V/8A(16)	+15V/2A	-15V/2A
CE-225-4104	+24V/6A(16)	+24V/3A(16)	+12V/2A	5V/2A
CE-225-3001	+5V/25A(16)	+12V/8A(16)		-12V/2A
CE-225-3002	+5V/25A(16)	+15V/8A(16)		-15V/2A
CE-225-2001 +12V/10A(16)		-12V/8A(16)		
CE-225-2002	+15V/10A(16)	-15V/8A(16)		
CE-225-2003	+5V/25A(16)	+12V/8A(16)		
CE-225-2004	+5.2V/30A(16)	-9V/6A		
CE-225-2005	+3.3V/25A(16)	+12V/8A(16)		
CE-225-2101	+5V/25A(16)	+24V/8A(16)		
CE-225-1001	3.3V/45A(17)			
CE-225-1002	5V/45A ₍₁₇₎			
CE-225-1003	12V/18.8A			
CE-225-1004	15V/15A			
CE-225-1005	24V/9.4A			
CE-225-1006	28V/8A			
CE-225-1007	48V/4.7A			
CE-225-1008	48V/4.7A			
CF-225-1009	39\//5.8A			

ORDERING INFORMATION

Consult factory for alternate output configurations. Consult factory for positive, negative or floating outputs. Please specify the following optional features when ordering:

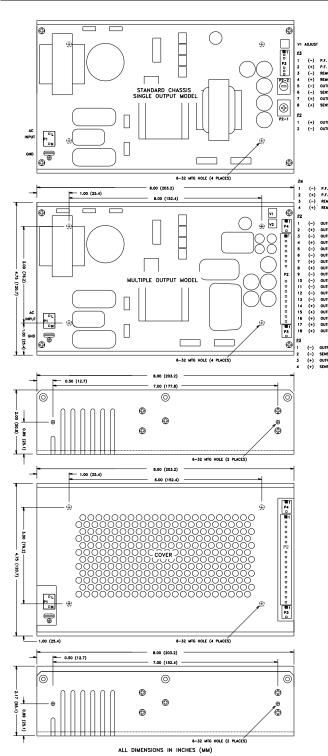
CO - Cover OVP - Overvoltage Protection PF - Power Fail I/O - Isolated Outputs TS - Terminal Strip RE - Remote Inhibit

OUT	PUT SPECIF	FICATIONS
Total Output Power(1)	150W	Convection Cooled ₍₁₈₎
(See Derating Chart)	225W	300LFM Forced-Air Cooled(15)
Output Voltage Centering	Output 1:	\pm 0.25% (All outputs at 50% load)
	Output 2:	$\pm 0.25\%$ (X0XX), $\pm 5.0\%$ (X1XX)
	Output 3:	± 2.0%
Output Valtage Adjust Dance	Output 4:	± 2.0%
Output Voltage Adjust Range	Outputs 1-2: Output 1:	95 - 105% (X0XX) 95 - 105% (X1XX)
	Output 1:	85 - 105% (X1XX) 85 - 105% (1001, 4001)
	Output 2:	85 - 105% (4002, 4003)
Load Regulation	Output 1:	0.5% (10-100% load change)
	Output 2:	
	(XOXX)	0.5% (0-100% load change)
	(XIXX) Output 3:	5.0% (10-100% load change) 2.0% (0-100% load change)
	Output 4:	2.0% (0-100% load change)
Source Regulation	Outputs 1 – 4:	0.5%
Cross Regulation	Outputs 2:	0.2% (X0XX), 0.5% (X1XX)
· ·	Output 3:	2.0%
	Output 4:	2.0%
Output Noise	Outputs 1 - 4:	1.0%
Turn on Overshoot	None	
Transient Response Voltage Deviation	Outputs 1 – 4 5.0%	
Recovery Time	5.0% 500μS	
Load Change	50% to 100%	
Output Overvoltage Protection	Output 1:	110% to 150%
(Optional)	Shuts down all o	utputs
	Cycle input to re	
Output Overpower Protection	250 W Min., Out	
Output Overgurrent Protection	110% Min., Outp	n/off, auto recovery
Output Overcurrent Protection Hold Up Time		V Output, 120V Input
Start Up Time	3 Seconds	V Output, 120V IIIput
INE	UT SPECIFI	CATIONS
Protection Class	1	
Protection Class Source Voltage	1 85 – 264 Volts A	
Protection Class Source Voltage Frequency Range	1	
Protection Class Source Voltage Frequency Range Source Current	1 85 – 264 Volts A 47 – 63 Hz	C
Protection Class Source Voltage Frequency Range Source Current True RMS	1 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp	C
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush	85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp 30A	C out
Protection Class Source Voltage Frequency Range Source Current True RMS	1 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp	C out
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency	1 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp 30A 6.0A at 85V Inpu 0.05 0.68-0.80 (varies	out ut s by model)
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor	1 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies	out s by model) 230V)
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor	1 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts,	out ut s by model)
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts, IMENTAL SE 0°C to + 70°C	out s by model) 230V) PECIFICATIONS
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts.) IMENTAL SE 0°C to + 70°C Derating: See Po	out s by model) 230V) PECIFICATIONS ower Rating Chart
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts, IMENTAL ST 0°C to + 70°C Derating: See Pc - 40°C to + 85°C	out s by model) 230V) PECIFICATIONS ower Rating Chart
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts. IMENTAL SI 0°C to + 70°C Derating: See Pu - 40°C to + 85°C Outputs 1 – 4:	but s by model) 230V) PECIFICATIONS ower Rating Chart 0.02%/°C
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts. IMENTAL SI 0°C to + 70°C Derating: See Per-40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C	but st s
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp 30A 6.0A at 85V Inp 0.05 0.68-0.80 (varies 0.92 (225 Watts, IMENTAL SI 0°C to + 70°C Derating: See Pu - 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C 12,192m ASL –	but s by model) 230V) PECIFICATIONS ower Rating Chart 0.02%/°C Operating Non-Operating
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENI	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts. IMENTAL SI 0°C to + 70°C Derating: See Per-40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C	but s by model) 230V) PECIFICATIONS ower Rating Chart 0.02%/°C Operating Non-Operating
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude	1 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts IMENTAL SI 0°C to + 70°C Derating: See Pc - 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C 12,192m ASL – ERAL SPEC	but s by model) 230V) PECIFICATIONS ower Rating Chart 0.02%/°C Operating Non-Operating
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENE Means of Protection Primary to Secondary Primary to Ground	1 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts IMENTAL SI 0°C to + 70°C Derating: See Pt - 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C 12,192m ASL – ERAL SPEC	out s by model) .230V) PECIFICATIONS ower Rating Chart . 0.02%/°C operating Non-Operating FICATIONS of Patient Protection) of Patient Protection)
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENI Means of Protection Primary to Secondary Primary to Ground Secondary to Ground	1 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts IMENTAL SI 0°C to + 70°C Derating: See Pt - 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C 12,192m ASL – ERAL SPEC	but it is by model) 230V) PECIFICATIONS ower Rating Chart 0.02%/°C operating Non-Operating FICATIONS of Patient Protection)
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENI Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(8, 9)	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Wats) IMENTAL SI 0°C to + 70°C Derating: See Pt. 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C 12,192m ASL – ERAL SPEC	but it is by model) 230V) PECIFICATIONS ower Rating Chart 0.02%/°C operating Non-Operating FICATIONS of Patient Protection) of Patient Protection) lation(Consult factory for 1MOPP)
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENI Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength _(6, 9) Reinforced Insulation	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp 30A 6.0A at 85V Inp 0.05 0.68-0.80 (varies 0.92 (225 Watts, IMENTAL STOP) C to + 70°C Derating: See Pe -40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C 12,192m ASL – ERAL SPECI	but it is by model) 230V) PECIFICATIONS ower Rating Chart 0.02%/°C operating Non-Operating FICATIONS of Patient Protection) of Patient Protection) lation(Consult factory for 1MOPP) ary to Secondary
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENI Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation Basic Insulation	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts. IMENTAL SI 0°C to + 70°C Derating: See Pt. 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C 12,192m ASL – ERAL SPECI 2MOPP (Means 1MOPP (Means Operational Insu 5656 VDC, Prim 2121 VDC, Prim 2121 VDC, Prim	but It Is by model) 230V) PECIFICATIONS Ower Rating Chart O 0.02%/°C Operating Non-Operating FICATIONS of Patient Protection) of Patient Protection) lation(Consult factory for 1MOPP) ary to Secondary ary to Ground
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENI Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength _(6, 9) Reinforced Insulation	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts. IMENTAL SI 0°C to + 70°C Derating: See Pt. 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C 12,192m ASL – ERAL SPECI 2MOPP (Means 1MOPP (Means Operational Insu 5656 VDC, Prim 2121 VDC, Prim 2121 VDC, Prim	but it is by model) 230V) PECIFICATIONS ower Rating Chart 0.02%/°C operating Non-Operating FICATIONS of Patient Protection) of Patient Protection) lation(Consult factory for 1MOPP) ary to Secondary
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENE Means of Protection Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation Basic Insulation Operational Insulation	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts. IMENTAL SI 0°C to + 70°C Derating: See Pt. 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C 12,192m ASL – ERAL SPECI 2MOPP (Means 1MOPP (Means Operational Insu 5656 VDC, Prim 2121 VDC, Prim 2121 VDC, Prim	but at s by model) 230V) PECIFICATIONS Ower Rating Chart O.02%/°C Operating Non-Operating FICATIONS of Patient Protection) of Patient Protection) lation(Consult factory for 1MOPP) any to Secondary any to Ground ondary to Ground
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENI Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp 30A 6.0A at 85V Inp 0.05 0.68-0.80 (varies 0.92 (225 Watts. IMENTAL SI 0°C to + 70°C Derating: See Pr - 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C 12,192m ASL – ERAL SPECI 2MOPP (Means Operational Insu 5656 VDC, Prim 2121 VDC, Prim 707 VDC, Secc <300 μA NC, <1(<100 μA NC, <56	put it is by model) 230V) PECIFICATIONS ower Rating Chart 0.02%/°C operating Non-Operating FICATIONS of Patient Protection) of Patient Protection) lation(Consult factory for 1MOPP) ary to Secondary ary to Ground ondary to Ground 000µA SFC 00µA SFC
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENI Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength _(8, 9) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp 30A 6.0A at 85V Inp 0.05 0.68-0.80 (varies 0.92 (225 Watts, IMENTAL Si 0°C to + 70°C Derating: See Pe -40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C 12,192m ASL – ERAL SPECI 2MOPP (Means 1MOPP (Means Operational Insu 5656 VDC, Prim 2121 VDC, Prim 707 VDC, Secc <300 μA NC, <10 <100 μA NC, <50 Logic low with in	put it is by model) 230V) PECIFICATIONS ower Rating Chart 0.02%/°C operating Non-Operating FICATIONS of Patient Protection) of Patient Protection) lation(Consult factory for 1MOPP) ary to Secondary ary to Ground ondary to Ground 000µA SFC 00µA SFC put power failure 10ms
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENI Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal (optional)(14)	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp 30A 6.0A at 85V Inp 0.05 0.68-0.80 (varies 0.92 (225 Watts, IMENTAL S) 0°C to + 70°C Derating: See Pt - 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C 12,192m ASL – ERAL SPECI 2MOPP (Means 1MOPP (Means Operational Insu 5656 VDC, Prim 2121 VDC, Prim 707 VDC, Secc <300 μA NC, <10 < 100 μA NC, <10 < 100 μA NC, <50 < 100 μC Means Insu 100 μA NC, <50 < 100 μA NC, <50 < 100 μA NC, <50 < 100 μC Means Insu 100 μA NC, <50 < 100 μA NC, <50 < 100 μA NC, <50 < 100 μC Means Insu 100 μA NC, <50 < 100 μA NC, <50 < 100 μA NC, <50 < 100 μC Means Insu 100 μA NC, <50 < 100 μA NC, <50 < 100 μA NC, <50 < 100 μC Means Insu 100 μA NC, <50 < 100 μA NC, <50 < 100 μA NC, <50 < 100 μC Means Insu 100 μA NC, <50 < 100 μC Means Insu 100 μA NC, <50 < 100 μC Means Insu 100 μA NC, <50 < 100 μA NC	put it is by model) 230V) PECIFICATIONS ower Rating Chart 0.02%/°C operating Non-Operating FICATIONS of Patient Protection) of Patient Protection) lation(Consult factory for 1MOPP) ary to Secondary ary to Ground ondary to Ground 000µA SFC 00µA SFC put power failure 10ms o Output 1 dropping 1%
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENI Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal (optional)(14)	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts. IMENTAL SI 0°C to + 70°C Derating: See Pt. 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C 12,192m ASL – ERAL SPECI 2MOPP (Means 1MOPP (Means Operational Insu 5656 VDC, Prim 2121 VDC, Prim 707 VDC, Sect <300μA NC, <10 <100μA NC, <10 <100μA NC, <50 Contact closure	out it is by model) 230V) PECIFICATIONS ower Rating Chart 0.02%/°C operating Non-Operating FICATIONS of Patient Protection) of Patient Protection) lation(Consult factory for 1MOPP) ary to Secondary ary to Ground ondary to Ground 000µA SFC 00µA SFC put power failure 10ms o Output 1 dropping 1% inhibits all outputs
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENI Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal (optional) Remote Inhibit (optional) Remote Sense(10)	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts. IMENTAL SI 0°C to + 70°C Derating: See Pc - 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C 12,192m ASL – C 12,192m ASL – C 2MOPP (Means 1MOPP (Means Operational Insu 5656 VDC, Prim 2121 VDC, Prim 707 VDC, Secc <300μA NC, <11 <100μA NC, <50 Logic low with in minimum prior to Contact closure 250mV compens	out at as by model) 230V) PECIFICATIONS ower Rating Chart 0.02%/°C operating Non-Operating FICATIONS of Patient Protection) of Patient Protection) lation(Consult factory for 1MOPP) ary to Secondary ary to Ground ondary to Ground
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENI Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal (optional)(14)	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp. 30A 6.0A at 85V Inp. 0.05 0.68-0.80 (varies 0.92 (225 Watts. IMENTAL SI 0°C to + 70°C Derating: See Pc - 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C 12,192m ASL – C 12,192m ASL – C 2MOPP (Means 1MOPP (Means Operational Insu 5656 VDC, Prim 2121 VDC, Prim 707 VDC, Secc <300μA NC, <11 <100μA NC, <50 Logic low with in minimum prior to Contact closure 250mV compens	out it is by model) 230V) PECIFICATIONS ower Rating Chart 0.02%/°C operating Non-Operating FICATIONS of Patient Protection) of Patient Protection) lation(Consult factory for 1MOPP) ary to Secondary ary to Ground ondary to Ground 000µA SFC put power failure 10ms o Output 1 dropping 1% inhibits all outputs

All specifications are maximum at 25°C/225W unless otherwise stated, may vary by model and are subject to change without notice.

EMC SPECIFICATIONS	(IEC 60601-1-2	2:2014, 4 TH ed./IEC 61000-6-2:2005)
Electrostatic Discharge	EN 61000-4-2	±8KV contact / ±15KV air discharge	Α
Radiated Electromagnetic Field	EN 61000-4-3	80MHz-2.7GHz, 10V/m, 80% AM	Α
Electrical Fast Transients/Bursts	EN 61000-4-4	±2 KV, 5KHz/100KHz	Α
Surge Immunity	EN 61000-4-5	± 2 KV line to earth / ± 1 KV line to line	Α
Conducted Immunity	EN 61000-4-6	0.15 to 80MHz, 10V, 80% AM	Α
Magnetic Field Immunity	EN 61000-4-8	30A/m, 60 Hz.	Α
Voltage Dips	EN 61000-4-11	0% U _T , 0.5 cycles, 0-315° 100/240V A	JΑ
		0% U _T , 1 cycles, 0° 100/240V A	/A
		40% U _T , 10/12 cycles, 0° 100/240V B	/A
		70% U _T , 25/30 cycles, 0° 100/240V B	/A
Voltage Interruptions	EN 61000-4-11	0% U _T , 300 cycles, 0° 100/240V B	/B
Radiated Emissions	EN 55011/32	Class B	
Conducted Emissions	EN 55011/32	Class B	
Harmonic Current Emissions	EN 61000-3-2	Class A	
Voltage Fluctuations/Flicker	EN 61000-3-3	Compliant	

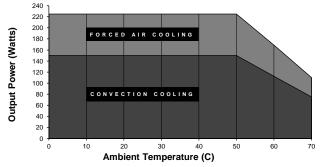
CE-225 SERIES MECHANICAL SPECIFICATIONS



APPLICATIONS INFORMATION

- Each output can deliver its rated current but Total Output Power must not exceed 150 or 225W, as determined by the cooling method.
- Generally, adequate cooling is provided when semiconductor case temperatures do not exceed 70°C rise and transformer temperature does not exceed 60°C rise at any specified ambient temperature.
- Sufficient area must be provided around power supply to allow natural movement of air to develop in convection-cooled applications.
- This product is intended for use as a professionally-installed component within information technology, industrial, and medical equipment and is not intended for stand-alone operation.
- A minimum load of 10% is required on Output 1 to ensure proper regulation of remaining outputs.
- This product includes only one fuse in the input circuit. In consideration of Clause 8.11.5
 of IEC 60601-1:2005, a second fuse may be required in neutral conductor of the end
 product.
- Peak-to-Peak Output Ripple and Noise is measured directly at the output terminals of the power supply, without the use of the probe ground lead or retractable tip (tip-and-barrel method), 20 MHz bandwidth.
- 8. This product was type-tested and safety-certified using the dielectric strength test voltages listed in Table 6 of IEC 60601-1:2005. In consideration of Clause 8.8.3, care must be taken to insure that the voltage applied to a reinforced insulation does not overstress different types and levels of insulation. Primary and secondary-to-ground capacitors may need to be disconnected prior to performing a dielectric strength test on the power supply or the end product. It is highly recommended that the DC test voltages listed in DVB.1, Annex DVB of UL 60601-1 1st Edition are not exceeded during a production-line dielectric strength test of the assembled end product. Please consult factory for further information.
- This power supply has been safety approved and final-tested using a DC dielectric strength test. Please consult factory before performing an AC dielectric strength test.
- 10. Remote-Sense terminals may be used to compensate for cable losses up to 250mV. The use of a twisted pair, decoupling capacitors and an appropriately-rated low-impedance capacitor connected across the load will increase noise immunity.
- 11. Maximum screw penetration into chassis mounting holes is 0.250 inches.
- To comply with emissions specifications, all four mounting hole pads must be electrically
 connected to a common metal chassis. Chassis/Cover option is recommended. Refer to
 Operating Instructions for additional information.
- Common RF shielding precautions may need to be taken to assure emissions compliance. Refer to Operating Instructions for additional information.
- Power Fail (AC-Good) feature provides a logic-low warning signal from an open collector transistor output 10ms prior to loss of output from AC failure, 5V/10mA.
- Forced-Air cooling rating of 225W requires an air speed of 300LFM flowing past a point one inch above the main isolation transformer.
- 16. Derated 20% when convection cooled.
- 17. Rated 30A maximum when convection cooled only.
- 18. Free-Air convection cooling, 150W maximum output power.

MAXIMUM OUTPUT POWER vs. AMBIENT TEMPERATURE



		CONNECTOR SPECIFICATIONS
	AC Input	0.156 friction lock header mates with Molex 09-50-3031 or equivalent crimp terminal housing with Molex 08-50-0189 or equivalent crimp terminal.
P2	DC Output (Single)	6-32 screw down terminal mates with #6 ring tongue terminal.
P2	DC Output (Multiple)	0.156 friction lock header mates with Molex 09-50-3181 or equivalent crimp terminal housing with Molex 08-50-0189 or equivalent crimp terminal.
G	Ground	0.187 quick disconnect terminal.
P3	Option/Sense (Single)	0.100 friction lock header mates with Molex 22-01-2087or equivalent crimp terminal housing with Molex 6459 or equivalent crimp terminal.
P3/P4	Option/Sense (Multiple)	0.100 friction lock header mates with Molex 22-01-2047or equivalent crimp terminal housing with Molex 6459 or equivalent crimp terminal.