CE-150 SERIES AC-DC

FEATURES:

- RoHS Compliant
- Universal 85-264 VAC Input
- 2 Year Warranty
- . One to Four Tightly Regulated Outputs
- EN 60950-1 ITE Certification
- EN 60601-1 Medical Certification
- Compact 4.0" x 7.0" x 1.75" Size Class B Emissions per EN 55011/22
 - Harmonic Current per EN 61000-3-2
 - EMC to EN 61000-6-2 & EN 60601-1-2 • Optional Perforated Cover



OPEN CHASSIS

CHASSIS/COVER

SAFETY S	PECIFICATIONS	
General		Protection Class: I Overvoltage Category: II Pollution Degree: 2
c 711 us	Underwriters Laboratories File E137708/E140259	UL 60950-1 2 nd Edition, 2007 UL 60601-1 1 st Edition, 2006 AAMI/ANSI ES 60601-1, 2005
IECEE CB SCHEME		CB Reports/Certificates (including all National and Group Deviations) IEC 60950-1/A1:2009, Second Edition IEC 60601-1:1988 +A1:1991 +A2:1995 IEC 60601-1:2005 Third Edition
c 711 us	UL Recognition Mark for Canada File E137708/E140259	CAN/CSA-C22.2 No. 60950-1-07, 2 nd Edition CAN/CSA-C22.2 No. 601-1-M90, 2005 CAN/CSA-C22.2 No. 60601-1:2008
SUD-	TUV	EN 60950-1/A12:2011 EN 60601-1/A2:1995 EN 60601-1:2006
ϵ	Low Voltage Directive RoHS Directive (Recast)	(2006/95/EC of December 2006) (2011/65/EU of June 2011)

MODEL LIS	STING			
MODEL NO.	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT 4
CE-150-4001	+3.3V/15A	+5V/5A	+12V/2A	-12V/2A
CE-150-4002	+5V/15A	+3.3V/5A	+12V/2A	-12V/2A
CE-150-4003	+5V/15A	+3.3V/5A	+15V/2A	-15V/2A
CE-150-4004	+5V/15A	-5.2V/5A	+12V/2A	-12V/2A
CE-150-4005	+5V/15A	-5.2V/5A	+15V/2A	-15V/2A
CE-150-4006	+5V/15A	+12V/5A	+12V/2A	-12V/2A
CE-150-4007	+5V/15A	+12V/5A	+15V/2A	-15V/2A
CE-150-4008	+15V/5A	-15V/5A	24V/1A	24V/1A
CE-150-4009	+5V/15A	+12V/5A	+15V/2A	-12V/2A
CE-150-4011	+5V/15A	+12V/5A	-5V/1A	-12V/1A
CE-150-4101	+5V/15A	+24V/5A	+12V/2A	-12V/2A
CE-150-4102	+5V/15A	+24V/5A	+15V/2A	-15V/2A
CE-150-4103IT	+5V/15A	+24V/5A(6ApK)	+12V/2A	-12V/2A
CE-150-3001	+5V/15A	+12V/5A		-12V/2A
CE-150-3002	+5V/15A	+15V/5A		-15V/2A
CE-150-3003	+15V/5A	-15V/5A	+5V/2A	
CE-150-3004	+5V/15A	+15V/5A	+36V/2.5A	
CE-150-2001	+12V/7.5A	-12V/5A		
CE-150-2002	+15V/5A	-15V/5A		
CE-150-2003	+5V/15A	+12V/6A		
CE-150-2101	+5V/15A	+24V/5A		
CE-150-1001	3.3V/30A ₍₂₎			
CE-150-1002	5V/30A(2)			
CE-150-1003	12V/12.5A			
CE-150-1004	15V/10A			
CE-150-1005	24V/6.25A			
CE-150-1006	28V/5.4A			
CE-150-1007	48V/3.1A			

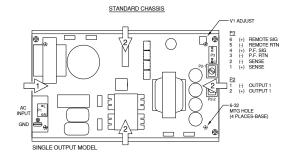
OUTPUT SPECIFICAT	IONS		
Total Output Power	100W	Convection	n Cooled
•	125W	Convectio	n Cooled, w/1Sq. ft. Baseplate
	150W		Forced Air
Output Voltage Centering	Output 1:	± 0.25%	(All outputs at 50% load)
	Output 2:	±0.25%	$(X0XX)$, $\pm 3.0\%$ $(X1XX)$
	Output 3:	± 2.0%	, , ,
	Output 4:	± 2.0%	
Output Voltage Adjust Range	Outputs 1 –2:	95-105%	(X0XX)
g-	Output 1:	95-105%	(X1XX)
	Output 1:	85-105%	(1001, 4001)
	Output 2:	85-105%	(4002,4003)
Load Regulation	Output 1:	0.5%	(0-100% load change)
· ·	Output 2:		
	(XOXX)	0.5%	(0-100% load change)
	(X1XX)	3.0%	(10-100% load change)
	Output 3:	2.0%	(10-100% load change)
-	Output 4:	2.0%	(0-100% load change)
Source Regulation	Outputs 1 – 4:	0.5%	
Cross Regulation	Output 2:	0.2%	(X0XX)
(Output 1 load varied 50-100%)		5.0%	(X1XX)
	Output 3:	2.0%	(Output 1 load
	Output 4:	2.0%	varied 50-100%)
Output Noise	Outputs 1 - 4:	1.0%	
Turn on Overshoot	None		
Transient Response	Outputs 1 – 4		
Voltage Deviation	5.0%		
Recovery Time	500μS		
Load Change	50% to 100%		
Output Overvoltage Protection	Output 1:	110% to 1	
(Optional)			wn all outputs. Cycle input
		to restart	
Output Overpower Protection	165 W Min., Ou		
	Outputs cycle		ecovery
Output Overcurrent Protection	110% Min., Out		
Hold Up Time	20 mS min., 15	0W, 120V Inp	out
Start Up Time	3 Seconds		
INPUT SPECIFICATIO	NS		
Source Voltage			
Source Voltage	85 – 264 Volts	AC	
Frequency Range	85 – 264 Volts A 47 – 63 Hz	AC	
Frequency Range Source Current	47 – 63 Hz		
Frequency Range Source Current True RMS	47 – 63 Hz 3A at 85V Input		
Frequency Range Source Current True RMS Peak Inrush	47 – 63 Hz 3A at 85V Input 30A		
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In		
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05	put	
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b	put y model)	
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23	put y model) 80V)	
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23	put y model) 80V)	
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 6.6880(varies b 0.90 (150 W, 23) PECIFICATIO 0° C to + 70° C	put y model) 80V)	
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23	put y model) 80V)	Chart
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 6.6880(varies b 0.90 (150 W, 23) PECIFICATIO 0° C to + 70° C	put y model) 80V) INS Power Rating	Chart
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23 ECIFICATIO 0° C to + 70° C Derating: See F	put y model) 80V) INS Power Rating	
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4:	put y model) 00V) NS Power Rating	
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4:	put y model) 00V) NS Power Rating	
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4:	put y model) 30V) INS Power Rating C C 0.02%	6/°C
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4:	put y model) 80V) INS Power Rating C C 0.02%	6/°C rotection)
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4: ATIONS 2MOPP (Means 1MOPP (Means	put y model) 30V) INS Power Rating C C 0.02% s of Patient P	rotection)
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4: ATIONS 2MOPP (Means 1MOPP (Means	put y model) 30V) INS Power Rating C C 0.02% s of Patient P	rotection)
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(14)	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4: ATIONS 2MOPP (Means 1MOPP (Means Operational Inst	put y model) BOV) NS Cower Rating C 0.029 s of Patient P s of Patient P ulation(Consu	rotection) rrotection) rrotection) ult factory for 1MOOP or 1MOPP
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 68-80(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4: ATIONS 2MOPP (Means 1MOPP (Means Operational Insu	put y model) 30V) NS Power Rating C 0.029 s of Patient P s of Patient P slation(Const	foleC rotection) rotection) ult factory for 1MOOP or 1MOPP ndary, 1 Sec.
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(14) Reinforced Insulation	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4: ATIONS 2MOPP (Means 1MOPP (Means Operational Insu 5656 VDC, Prin 2545 VDC, Prin	put y model) 30V) INS Power Rating C 0.02% s of Patient P s of Patient P ulation(Consumary to Seconary to Grour	rotection) rotection) ultfactoryfor 1MOOP or 1MOPP ndary, 1 Sec. nd, 1 Sec.
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(14) Reinforced Insulation Basic Insulation	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 68-80(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4: ATIONS 2MOPP (Means 1MOPP (Means Operational Insu	put y model) 30V) INS Power Rating C 0.02% s of Patient P s of Patient P ulation(Consumary to Seconary to Grour	rotection) rotection) ultfactoryfor 1MOOP or 1MOPP; ndary, 1 Sec. nd, 1 Sec.
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(14) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4: ATIONS 2MOPP (Means 1MOPP (Means Operational Insu 5656 VDC, Prin 2545 VDC, Prin 707 VDC, Seco	put y model) 30V) INS Power Rating C C 0.02% s of Patient P s of Patient P ulation(Const	rotection) rotection) ultfactoryfor 1MOOP or 1MOPP; ndary, 1 Sec. nd, 1 Sec.
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(14) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4: ATIONS 2MOPP (Means 1MOPP (Means Operational Insu 5656 VDC, Prin 2545 VDC, Prin 707 VDC, Seco	put y model) BOV) INS Cower Rating C 0.02% S of Patient P s of Patient P ulation(Consumary to Secondary to Groundary to Gr	rotection) rotection) ultfactoryfor 1MOOP or 1MOPP ndary, 1 Sec. nd, 1 Sec.
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(14) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4: ATIONS 2MOPP (Means 1MOPP (Means Operational Insu 5656 VDC, Prin 707 VDC, Seco <300uA NC, <1 <100uA NC, <5	put y model) BOV) NS Cower Rating C 0.029 s of Patient P s of Patient P ulation(Consumary to Seconary to Grour ndary to Groundary to Gr	rotection) rrotection) ult factory for 1MOOP or 1MOPP ndary, 1 Sec. nd, 1 Sec. und, 1 Sec.
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(14) Reinforced Insulation Basic Insulation Derational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4: ATIONS 2MOPP (Means 1MOPP (Means Operational Insu 5656 VDC, Prin 707 VDC, Seco <300uA NC, <1 <100uA NC, <5 Logic low with ii	put y model) 30V) NS ower Rating C 0.029 s of Patient P s of Patient P ulation(Consumary to Seconary to Groundary to Groun	rotection) rrotection) ult factory for 1MOOP or 1MOPP ndary, 1 Sec. nd, 1 Sec. und, 1 Sec.
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(14) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal (Optional)	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 68-80(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4: ATIONS 2MOPP (Means: 1MOPP (Means: 1MOPP (Means: 2545 VDC, Prin 2545 VDC, Prin 777 VDC, Seco <300uA NC, <1 100uA NC, <5 Logic low with i minimum prior t	put y model) 30V) NS ower Rating C 0.029 s of Patient P s of Patient P ulation(Const nary to Seconary to Groundary to Grou	rotection) rrotection) ult factory for 1MOOP or 1MOPP ndary, 1 Sec. nd, 1 Sec. und, 1 Sec. ailure 10 mS ropping 1%
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(14) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal (Optional) Remote On/Off (optional)	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 68-80(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4: ATIONS 2MOPP (Means 1MOPP (Means 1MOPP (Means 2545 VDC, Prin 2545 VDC, Prin 707 VDC, Seco <300uA NC, <1 <100uA NC, <5 Logic low with i minimum prior t Contact closure	put y model) BOV) NS Power Rating C 0.029 s of Patient P s of Patient P ulation(Consumary to Groundary to Gro	rotection) rrotection) ult factory for 1MOOP or 1MOPP ndary, 1 Sec. nd, 1 Sec. und, 1 Sec. sillure 10 mS ropping 1% outputs
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Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(14) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal (Optional) Remote On/Off (optional) Remote Sense(Single models) Mean-Time Between Failures	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4: ATIONS 2MOPP (Means 1MOPP (Means 1MOPP (Means Operational Inst 5656 VDC, Prin 707 VDC, Seco <300uA NC, <1 <100uA NC, <5 Logic low with i minimum prior I Contact closure 250mV comper	put y model) 30V) INS Power Rating C 0.029 s of Patient P s of Patient P ulation(Consumary to Seconary to Groundary to Gro	rotection) rrotection) ult factory for 1MOOP or 1MOPP; ndary, 1 Sec. nd, 1 Sec. und, 1 Sec. sillure 10 mS ropping 1% outputs
Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRONMENTAL SP Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient GENERAL SPECIFICA Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(14) Reinforced Insulation Basic Insulation Operational Insulation Leakage Current Earth Leakage Touch Current Power Fail Signal (Optional) Remote On/Off (optional) Remote On/Off (optional)	47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V In 0.05 .6880(varies b 0.90 (150 W, 23 PECIFICATIO 0° C to + 70° C Derating: See F - 40° C to + 85° Outputs 1 – 4: ATIONS 2MOPP (Means 1MOPP (Means Operational Insu 5656 VDC, Prin 707 VDC, Seco <300uA NC, <1 <100uA NC, <5 Logic low with i minimum priot Contact closure 250mV comper 150,000 Hours 2.0 Lbs.	put y model) 30V) INS Power Rating C 0.029 s of Patient P s of Patient P ulation(Consumary to Seconary to Groundary to Gro	rotection) rrotection) rrotection) ult factory for 1MOOP or 1MOPP) ndary, 1 Sec. nd, 1 Sec. und, 1 Sec. und, 1 Sec. ailure 10 mS ropping 1% outputs put cable losses

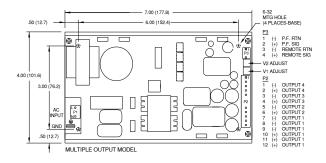
Please specify the following optional features when ordering:

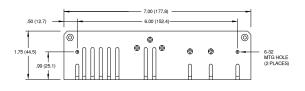
OVP - Overvoltage Protection CO - Cover PF - Power Fail I/O - Isolated Outputs TS - Terminal Strip RE – Remote Inhibit

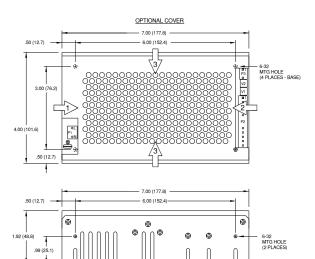
ELECTROMAGNETIC	COMPATIBIL	LITY SPECIFICATIONS
Electrostatic Discharge	EN 61000-4-2	±8kV Contact Discharge
		±8kV Air Discharge
Radiated Electromagnetic Field	EN 61000-4-3	80MHz-2.5GHz, 10/m, 80% AM
EFT/Bursts	EN 61000-4-4	±2 kV
Surges	EN 61000-4-5	±1 kV Common Mode
		±2 kV Differential Mode
Conducted Immunity	EN 61000-4-6	.15 to 80MHz, 10V, 80% AM
Voltage Dips and Interruptions	EN 61000-4-11	30% Reduction, 500ms
		95% Reduction, 10ms
		60% Reduction, 1s (Criteria B)
		95% Reductions, 5000ms
Radiated Emissions	EN 55011/22	Class B
Conducted Emissions	EN 55011/22	Class B
Harmonic Current Emissions	EN 61000-3-2	Class A,D

CE-150 SERIES MECHANICAL SPECIFICATIONS







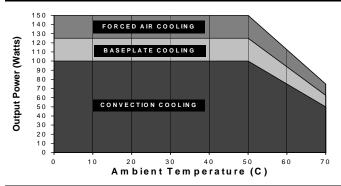


ALL DIMENSIONS IN INCHES (MM)

APPLICATIONS INFORMATION

- Each output can deliver its rated current but total output power must not exceed 100, 125
 or 150 watts as determined by the cooling method.
- Rated 20 amps maximum when convection cooled only.
- 3. Free air convection cooling, 100 watts maximum output power.
- Base plate cooled rating of 125 watts requires a one square foot .09" thick aluminum area attached to bottom four mounting holes.
- Forced air cooling rating of 150 watts requires an air speed of 300 linear feet per minute flowing past a point one inch above the main isolation transformer..
- Semiconductor case temperatures must not exceed 110°C.
- Sufficient area must be provided around convection cooled power supplies to allow natural movement of air to develop.
- 300 linear feet per minute of airflow must be maintained one inch above any point of the heatsink in the direction shown when forced air cooling is required.
- This product is intended for use as a professionally installed component within information technology and medical equipment.
- A minimum load of 10% is required on output one to ensure proper regulation of remaining outputs.
- 11. Remote sense terminals may be used to compensate for cable losses up to 250mV. The use of a twisted pair is recommended as well as a decoupling capacitor (0.1 $10\mu F$) and a capacitor of $100\mu F$ /amp connected across the load side.
- 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, 20 MHz bandwidth.
- 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 the end product.
- 14. 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 UL60601-1 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.
 Maximum screw penetration into chassis mounting holes is 250 inches.

MAXIMUM OUTPUT POWER VS. AMBIENT TEMPERATURE



CO	NNECTOR S	PECIFICATIONS
P1	AC Input	.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	6-32 screw down terminal mates with #6 ring tongue
	(Single)	terminal. (10 in-lb max)
P2	DC Output (Multiple)	.156 friction lock header mates with Molex 09-50-3121 or equivalent crimp terminal housing with Molex 08-50-0189 or equivalent crimp terminal.
G	Ground	.187 quick disconnect terminal.
P3	Option/Sense (Single)	.100 friction lock header mates with Molex 22-01-2067 or equivalent crimp terminal housing with Molex 6459 or equivalent crimp terminal.
P3	Option/Sense (Multiple)	.100 friction lock header mates with Molex 22-01-2047 or equivalent crimp terminal housing with Molex 6459 or equivalent crimp terminal.

RECOMMENDED AIR FLOWDIRECTION 1 – OPTIMUM 2 – GOOD 3 – FAIR

NOTES

Consult factory for alternate output configurations.

Consult factory for positive, negative or floating outputs.

Refer to Applications Information for complete output power ratings.

All specifications are maximum at 25° C, 150W unless otherwise stated, may vary by model and are subject to change without notice.