FEATURES:

- Compact 4.0" x 7.0" x 1.75" Size IEC 62368-1 2nd ed. Certification
- 2 Year Warranty
- Universal 85-264V Input
- 1-4 Tightly-Regulated Outputs
- High Efficiency
- 0-70°C Operating Temperature
- RoHS Compliant

- IEC 60601-1 3rd ed. Medical Cert.
- IEC 60601-1-2 4th ed. EMC
- Class B Emissions per EN55011/32
- Optional Remote Inhibit/Enable
- Optional Power Fail Warning
- Optional Perforated Cover



CHASSIS/COVER

OPEN CHASSIS

SAFETY SPECIFICATIONS



Underwitters Laboration File E137708/E140259 **Underwriters Laboratories** 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



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

IEC 60601-1:2005/A1:2012



TUV SUD America

EN 62368-1:2014, 2nd Edition EN 60601-1:2006/A1:2013



Low Voltage Directive RoHS Directive (Recast)

(2014/35/EU of February 2014) (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-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(18)			
CE-150-1002	5V/30A(18)			
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			

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

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

OUTPUT SPECIFICATIONS

Convection Cooled(16)

Total Output Power(1)

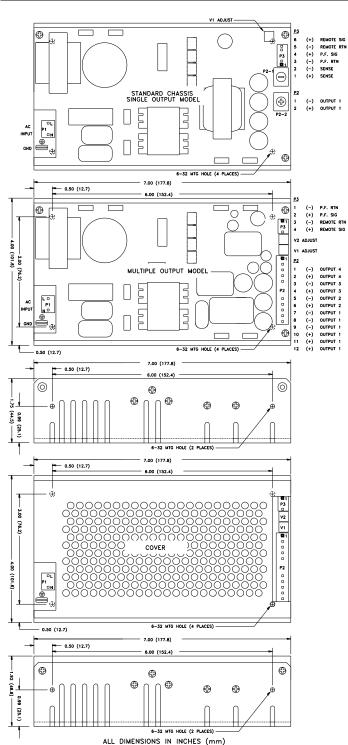
	100W		n Cooled(16)
(See Derating Chart)	125W		Cooled, w/1Sq. ft. Baseplate(1)
	150W		orced-Air Cooled ₍₁₅₎
Output Voltage Centering	Output 1:	± 0.25%	(All outputs at 50% load)
	Output 2:	$\pm 0.25\%$	$(X0XX), \pm 3.0\% (X1XX)$
	Output 3:	$\pm 2.0\%$	
	Output 4:	± 2.0%	
Output Voltage Adjust Range	Outputs 1 –2:	95-105%	(X0XX)
	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	50%.
(Optional)	· · ·		vn all outputs. Cycle input
\ - F >=/		to restart	
Output Overpower Protection	165 W Min., Ou		
Output Overpower i rotection	Outputs cycle of		
Output Overcurrent Protection	110% Min., Out		
Hold Up Time	20mS min., 150		ut
Start Up Time	3 Seconds	vv, 120v IIIp	ut
		CATION	C
	UT SPECIFI	CATION	ა
Protection Class	05 0041/ 11 /	10	
Source Voltage	85 – 264 Volts A	AC .	
Frequency Range	47 – 63 Hz		
Source Current			
True RMS	3A at 85V Input		
Peak Inrush		30A	
Peak Repetitive	4.25A at 85V In	put	
Harmonic Distortion	0.05		
Efficiency	0.68-0.80(varies		
	0.90 (150 W, 23		
Power Factor		ECIFIC	TIONIO
Power Factor	MENTAL SF	ECIFICA	ATIONS
Power Factor ENVIRON		1EGIFIG	ATIONS
Power Factor ENVIRON Ambient Operating	MENTAL SF 0°C to + 70°C		
Power Factor ENVIRON Ambient Operating Temperature Range	MENTAL SF 0°C to + 70°C Derating: See P	ower Rating	
Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range	O°C to + 70°C Derating: See P - 40°C to + 85°C	ower Rating	Chart
Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range	MENTAL SF 0°C to + 70°C Derating: See P - 40°C to + 85°C Outputs 1 – 4:	ower Rating C 0.02%	Chart
Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient	MENTAL SF 0°C to + 70°C Derating: See P - 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – C	ower Rating 0.02% Operating	Chart
Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude	MENTAL SF 0°C to + 70°C Derating: See P - 40°C to + 85°C Outputs 1 - 4: 3,000m ASL - C 12,192m ASL -	ower Rating 0.02% Operating Non-Operati	Chart 5/°C
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Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENE Means of Protection Primary to Secondary Primary to Ground Secondary to Ground	MENTAL SF 0°C to + 70°C Derating: See P - 40°C to + 85°(Outputs 1 – 4: 3,000m ASL – C 12,192m ASL – ERAL SPECI 2MOPP (Means 1MOPP (Means	Ower Rating 0.02% Operating Non-Operati FICATIO of Patient P	Chart 5/°C ng NS rotection)
Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENE Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(8, 9)	MENTAL SP 0°C to + 70°C Derating: See P - 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – (12,192m ASL – (2MOPP (Means 1MOPP (Means Operational Insu	Ower Rating O.02% Operating Non-Operati FICATIO of Patient P of Patient P of Patient P of Patient P	Chart S/°C INS rotection) rotection) sllt factory for 1MOPP)
Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENE Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation	MENTAL SF 0°C to + 70°C Derating: See P - 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – (12,192m ASL – 2 MOPP (Means 1MOPP (Means Operational Inst.)	Ower Rating O.02% Operating Non-Operati FICATIO of Patient P of Patient P ulation(Consu	Chart S/°C INS rotection) rotection) rotection) adary
Power Factor ENVIRON Ambient Operating Temperature Range Ambient Storage Temp. Range Temperature Coefficient Altitude GENE Means of Protection Primary to Secondary Primary to Ground Secondary to Ground Dielectric Strength(s.9) Reinforced Insulation Basic Insulation	MENTAL SF 0°C to + 70°C Derating: See P - 40°C to + 85°C Outputs 1 – 4: 3,000m ASL – (12,192m ASL – (2MOPP (Means 1MOPP (Means Operational Insu 5656 VDC, Prim 2121 VDC, Prim	Ower Rating O.02% Operating Non-Operati FICATIO of Patient P of Patient P ilation(Consumary to Seconary to Grour	Chart 5/°C ng NS rotection) rotection) ult factory for 1MOPP) adary
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All specifications are maximum at 25°C/150W 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 61000-6-2:200	5)
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/A
		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	

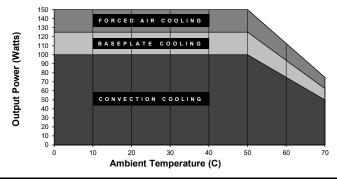
CE-150 SERIES MECHANICAL SPECIFICATIONS



APPLICATIONS INFORMATION

- Each output can deliver its rated current but Total Output Power must not exceed 100, 125 or 150W, 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 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.
- 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.
- 12. 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 150W requires an air speed of 300LFM flowing past a point one inch above the main isolation transformer.
- 16. Free-Air convection cooling, 100W maximum output power.
- Baseplate-cooled rating of 125W requires a one-square-foot 0.09"-thick aluminum area attached to bottom four mounting holes.
- 18. Rated 20A maximum when convection cooled only

MAXIMUM OUTPUT POWER vs. AMBIENT TEMPERATURE



		CONNECTOR SPECIFICATIONS
P1	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. (10 in-lb max)
P2	DC Output (Multiple)	0.156 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	0.187 quick disconnect terminal.
P3	Option/Sense (Single)	0.100 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)	0.100 friction lock header mates with Molex 22-01-2047or equivalent crimp terminal housing with Molex 6459 or equivalent crimp terminal.