150 WATTS

SINGLE/MULTI OUTPUT AC-DC

FEATURES:

- 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.
- Compact 4.0" x 7.0" x 1.75" 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

C TUs File E137708/E140259 **Underwriters Laboratories**

Low Voltage Directive

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(R)2021 CAN/CSA-C22.2 No. 60601-1:2014:2022

(2014/35/EU of February 2014)



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** EN 60601-1:2006/A1:2013





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-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			

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:

15V/10A

24V/6.25A

28V/5.4A

OVP – Overvoltage Protection CO - Cover

PF - Power Fail I/O - Isolated Outputs TS - Terminal Strip RE - Remote Inhibit

Total Output Power ₍₁₎	100W		n Cooled(16)
•	125W	Convection	n Cooled, w/1Sq. ft. Baseplate(17)
(See Derating Chart)	150W		orced-Air Cooled ₍₁₅₎
Output Voltage Centering	Output 1:	± 0.25%	(All outputs at 50% load)
	Output 2:	$\pm 0.25\%$	(X0XX), ±3.0% (X1XX)
	Output 3:	$\pm \ 2.0\%$	
	Output 4:	$\pm 2.0\%$	
Output Voltage Adjust Range	Outputs 1 –2:	95-105%	(X0XX)
	Output 1:	95-105%	(X1XX)
	Output 1:	85-105%	(1001, 4001)
Load Regulation	Output 2: Output 1:	85-105% 0.5%	(4002,4003) (0-100% load change)
Load Regulation	Output 1:	0.576	(0-100 % load change)
	(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 Outpute 1 4		
Transient Response	Outputs 1 – 4		
Voltage Deviation	5.0%		
Recovery Time Load Change	500μS 50% to 100%		
Output Overvoltage Protection	50% to 100% Output 1:	110% to 1	150%
(Optional)	Juiput 1.		wn all outputs. Cycle input
(opuonar)		to restart	. , ,
Output Overpower Protection	165 W Min., Out		
	Outputs cycle o		
Output Overcurrent Protection	110% Min., Outp		•
Hold Up Time	20mS min., 150\		ut
riola op riirie	201110 1111111., 1001	v, 120 v 111p	ut
Start Up Time	3 Seconds	rv, 120v 111p	ut
Start Up Time			
Start Up Time	3 Seconds UT SPECIFIO	CATION	
Start Up Time INP Protection Class Source Voltage	3 Seconds UT SPECIFIC I 85 – 264 Volts A	CATION	
Start Up Time INP Protection Class Source Voltage Frequency Range	3 Seconds UT SPECIFIO	CATION	
Start Up Time INP Protection Class Source Voltage Frequency Range Source Current	3 Seconds UT SPECIFI(1 85 – 264 Volts A 47 – 63 Hz	CATION	
Start Up Time INP Protection Class Source Voltage Frequency Range Source Current True RMS	3 Seconds UT SPECIFI(I 85 – 264 Volts A 47 – 63 Hz 3A at 85V Input	CATION	
Start Up Time INP Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush	3 Seconds UT SPECIFI(1 85 – 264 Volts A 47 – 63 Hz 3A at 85V Input 30A	CATION	
Start Up Time Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive	3 Seconds UT SPECIFIC I 85 – 264 Volts A 47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V Inp	CATION	
Start Up Time Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion	3 Seconds UT SPECIFIC 1 85 – 264 Volts A 47 – 63 Hz 3A at 85V Input 30A 4.25A at 85V Inp 0.05	CATION C	
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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.



CE-150-1004

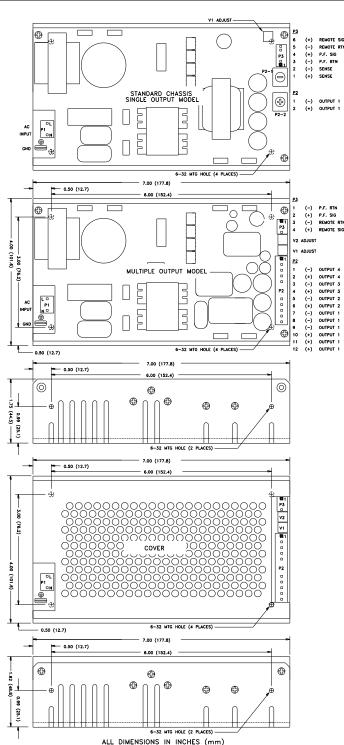
CE-150-1005

CE-150-1006

CE-150-1007

EMC SPECIFICATIONS	G (IEC 60601-1-2	2:2014, 4 TH ed./IEC 61000-6-2:20	05)
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 lin	e A
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° 100/240'	/ A/A
		0% U _T , 1 cycles, 0° 100/240\	/ A/A
		40% U _T , 10/12 cycles, 0° 100/240\	/ B/A
		70% U _T , 25/30 cycles, 0° 100/240\	/ B/A
Voltage Interruptions	EN 61000-4-11	0% U _T , 300 cycles, 0° 100/240\	/ 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	

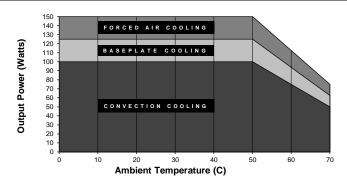
CE-150 SERIES MECHANICAL SPECIFICATIONS



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.
- 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 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	6-32 screw down terminal mates with #6 ring tongue
	(Single)	terminal. (10 in-lb max)
P2	DC Output	0.156 friction lock header mates with Molex 09-50-3121 or equivalent
	(Multiple)	crimp terminal housing with Molex 08-50-0189 or equivalent crimp
		terminal.
G	Ground	0.187 quick disconnect terminal.
P3	Option/Sense	0.100 friction lock header mates with Molex 22-01-2067or equivalent
	(Single)	crimp terminal housing with Molex 6459 or equivalent crimp terminal.
P3	Option/Sense	0.100 friction lock header mates with Molex 22-01-2047or equivalent
	(Multiple)	crimp terminal housing with Molex 6459 or equivalent crimp terminal.