# **225 WATTS**

## SINGLE/MULTI OUTPUT AC-DC

#### FEATURES:

- Compact 4.75 x 8.0" x 2.0" Size IEC 62368-1 2nd ed. Certification
- 2 Year Warranty ٠
- Universal 85-264V Input
- 1-4 Tightly-Regulated Outputs
- High Efficiency
- 0-70°C Operating Temperature
- RoHS Compliant
- IEC 60601-1-2 4th ed. EMC Class B Emissions per EN55011/32 Optional Remote Inhibit/Enable
- Optional Power Fail Warning

• IEC 60601-1 3rd ed. Medical Cert.

Optional Perforated Cover



CHASSIS/COVER

OPEN CHASSIS

SAFETY SPECIFICATIONS	

	JAL	EIT SPEC	IFICATIONS		
	derwriters Laborate		. 62368-1:2014, 2 <sup>nd</sup> E N/CSA-C22 2 No. 6		
c Wus File	Underwriters Laboratories		CAN/CSA-C22.2 No. 62368-1-14, 2 <sup>nd</sup> Edition AAMI/ANSI ES60601-1:2005/(R) 2012(R)2021		
		CA	N/CSA-C22.2 No. 6	0601-1:2014:2022	
			IEC 62368-1:2014, 2		
<del>Sснеме</del> Nat	tional and Group D	eviations)	IEC 60601-1:2005/A	1:2012	
TU TU	JV SUD America		EN 62368-1:2014, 2nd Edition		
SUD	V SUD America		EN 60601-1:2006/A1:2013		
	w Voltage Directive		(2014/35/EU of February 2014)		
Rol	RoHS Directive (Recast)		(2015/863/EU of March 2015)		
		, .	tions 2016 SI No. 110		
	striction of the Use 12 SI No. 3032 + 2		ardous Substances ir	EEE Regulations	
20	12 01 110: 3002 + 2	MODEL L	ISTING		
MODEL NO.	OUTPUT 1	OUTPUT	2 OUTPUT 3	OUTPUT 4	
CE-225-4001	+3.3V/25A(16)	+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-225-1002	12V/18.8A				
CE-225-1004	15V/15A				
CE-225-1004 CE-225-1005	24V/9.4A				
CE-225-1005	28V/8A				
CE-225-1006 CE-225-1007	48V/4.7A				
CE-225-1008 CE-225-1009	48V/4.7A 39V/5.8A				
02-220-1009	39V/3.0A				

### ORDERING INFORMATION

I/O – Isolated Outputs

RE – Remote Inhibit

Consult factory for alternate output configurations, positive, negative or floating outputs. Please specify the following optional features when ordering: CO – Cover OVP – Overvoltage Protection

- PF Power Fail
- TS Terminal Strip
- WT Low Temperature Turn On

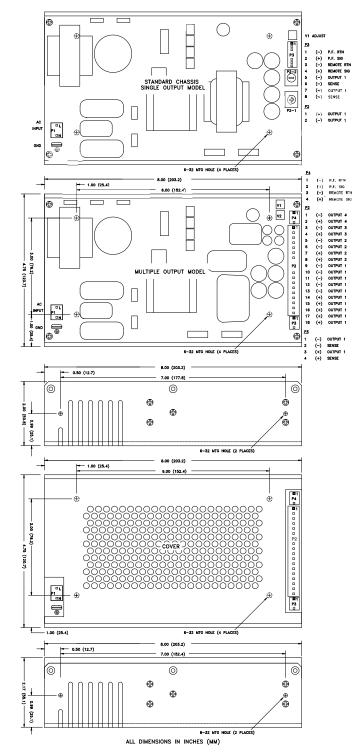


Total Output Power(1)	150W	Convection Cooled(18)		
(See Derating Chart)	225W 300LFM Forced-Air Cooled(15)			
Output Voltage Centering	Output 1:	$\pm 0.25\%$ (All outputs at 50% load)		
	Output 2:	$\pm 0.25\%$ (X0XX), $\pm 5.0\%$ (X1XX)		
	Output 3:	$\pm 2.0\%$		
	Output 4:	± 2.0%		
Output Voltage Adjust Range	Outputs 1-2:	95 - 105% (X0XX)		
	Output 1:	95 - 105% (X1XX)		
	Output 1: Output 2:	85 - 105% (1001, 4001) 85 - 105% (4002, 4003)		
Load Regulation	Output 1:	85 - 105% (4002, 4003) 0.5% (10-100% load change)		
Load Regulation	Output 2:			
	(XOXX)	0.5% (0-100% load change)		
	(XIXX)	5.0% (10-100% load change)		
	Output 3:	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) 2.0%		
	Output 3: Output 4:	2.0%		
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 150%		
(Optional)	Shuts down all or			
Output Overpower Protection	Cycle input to res 250 W Min., Outr			
Output Overpower Protection		n/off, auto recovery		
Output Overcurrent Protection	110% Min., Outp			
Hold Up Time		V Output, 120V Input		
Start Up Time	3 Seconds			
	UT SPECIFI	CATIONS		
INP		o A hono		
Protection Class		SATIONS		
Protection Class Source Voltage	l 85 – 264 Volts A			
Protection Class Source Voltage Frequency Range				
Protection Class Source Voltage Frequency Range Source Current	l 85 – 264 Volts A 47 – 63 Hz	с		
Protection Class Source Voltage Frequency Range Source Current True RMS	l 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp	с		
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp 30A	C		
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp 30A 6.0A at 85V Inpu	C		
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp 30A 6.0A at 85V Inpu 0.05	C ut t		
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive	I 85 – 264 Volts A 47 – 63 Hz 4.25A at 85V Inp 30A 6.0A at 85V Inpu	Cut tt by model)		
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor	 85 - 264 Volts Al 47 - 63 Hz 4.25A at 85V Inp 30A 6.0A at 85V Inpu 0.05 0.68-0.80 (varies 0.92 (225 Watts,	Cut tt by model)		
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor	 85 - 264 Volts Al 47 - 63 Hz 4.25A at 85V Inp 30A 6.0A at 85V Inpu 0.05 0.68-0.80 (varies 0.92 (225 Watts,	C ut t by model) 230V)		
Protection Class Source Voltage Frequency Range Source Current True RMS Peak Inrush Peak Repetitive Harmonic Distortion Efficiency Power Factor ENVIRON Ambient Operating Temperature Range	 85 - 264 Volts Al 47 - 63 Hz 4.25A at 85V Inp 30A 6.0A at 85V Inpu 0.05 0.68-0.80 (varies 0.92 (225 Watts, <b>IMENTAL SP</b> 0°C to + 70°C Derating: See Pc	Cut t by model) 230V) ECIFICATIONS wer 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	 85 - 264 Volts Al 47 - 63 Hz 4.25A at 85V Inp 30A 6.0A at 85V Inpu 0.05 0.68-0.80 (varies 0.92 (225 Watts, <b>IMENTAL SP</b> 0°C to + 70°C Derating: See Pc - 40°C to + 85°C	C ut t by model) 230V) ECIFICATIONS wer Rating Chart		
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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	 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 0.92 (225 Watts, <b>MENTAL SE</b> 0°C to + 70°C Derating: See Pc -40°C to + 85°C Outputs 1 - 4: 3,000m ASL - O	C ut t by model) 230V) ECIFICATIONS wer Rating Chart 0.02%/°C perating		
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	 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 0.92 (225 Watts, <b>IMENTAL SP</b> 0°C to + 70°C Derating: See Pc -40°C to + 85°C Outputs 1 - 4: 3,000m ASL - 0 12,192m ASL - 1	C ut t by model) 230V) PECIFICATIONS wer Rating Chart 0.02%/°C perating Von-Operating Von-Operating		
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**OUTPUT SPECIFICATIONS** 

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

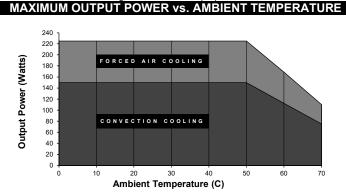
<b>EMC SPECIFICATIONS</b>	S (IEC 60601-1-2	2:2014, 4 <sup>TH</sup> ed./IEC 6100	0-6-2:2005	5)
Electrostatic Discharge	EN 61000-4-2	±8KV contact / ±15KV air	discharge	А
Radiated Electromagnetic Field	EN 61000-4-3	80MHz-2.7GHz, 10V/m, 80	% AM	А
Electrical Fast Transients/Bursts	EN 61000-4-4	±2 KV, 5KHz/100KHz		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%	۹M	Α
Magnetic Field Immunity	EN 61000-4-8	30A/m, 60 Hz.		Α
Voltage Dips	EN 61000-4-11	0% U <sub>T</sub> , 0.5 cycles, 0-315°	100/240V A	٧A
-		0% U <sub>T</sub> , 1 cycles, 0°	100/240V A	٧A
		40% U <sub>T</sub> , 10/12 cycles, 0°	100/240V E	3/A
		70% UT, 25/30 cycles, 0°	100/240V E	3/A
Voltage Interruptions	EN 61000-4-11	0% U <sub>T</sub> , 300 cycles, 0°	100/240V E	3/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		
<b>CE-225 SERIES MECHANICAL SPECIFICATIONS</b>				



#### **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.
- 5. 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 60601-11 st 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.
- 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.
- 15. 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.



AC Input	ONNECTOR SPECIFICATIONS 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.	
•	equivalent crimp terminal housing with Molex 08-50-0189 or	
		_
(Single)	6-32 screw down terminal mates with #6 ring tongue terminal.	
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.	_
Ground	0.187 quick disconnect terminal.	-
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.	_
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.	RE
	DC Output Multiple) Ground Dption/Sense Single) Dption/Sense	DC Output Single)         6-32 screw down terminal mates with #6 ring tongue terminal.           DC Output         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.           Ground         0.187 quick disconnect terminal.           Option/Sense         0.100 friction lock header mates with Molex 22-01-2087or equivalent crimp terminal housing with Molex 6459 or equivalent crimp terminal.           Option/Sense         0.100 friction lock header mates with Molex 22-01-2047or equivalent crimp terminal housing with Molex 6459 or equivalent crimp terminal.           Option/Sense         0.100 friction lock header mates with Molex 6459 or equivalent crimp terminal.



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