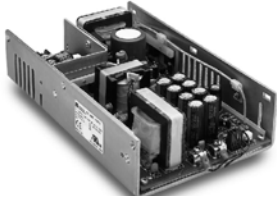


225 WATTS

CE-225 SERIES AC-DC

FEATURES:

- RoHS Compliant
- Universal 85-264 VAC Input
- Compact 4.75 x 8" x 2.0" Size
- 2 Year Warranty
- One to Four Tightly Regulated Outputs
- EN 60950-1 ITE Certification
- EN 60601-1 Medical Certification
- 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 SPECIFICATIONS

General	Protection Class: 1
	Overvoltage Category: II
	Pollution Degree: 2
	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 CB Reports/Certificates (including all National and Group Deviations) IEC 60950-1/A1:2009, Second Edition IEC 60601-1:1988 +A1: +A2:1995 IEC 60601-1:2005 Third Edition
	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 EN 60950-1/A12:2011 EN 60601-1/A2:1995 EN 60601-1:2006
	Low Voltage Directive (2006/95/EC of December 2006) RoHS Directive (Recast) (2011/65/EU of June 2011)

MODEL LISTING

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

OUTPUT SPECIFICATIONS

Total Output Power	150W 225W	Convection Cooled 300 LFM Forced Air
Output Voltage Centering	Output 1: ± 0.25% (All outputs at 50% load) Output 2: ± 0.25% (X0XX), ± 5.0% (X1XX) Output 3: ± 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% (10-100% load change) Output 2: (X0XX) 0.5% (0-100% load change) (X1XX) 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) Output 3: 2.0% 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 (Optional)	Output 1: 110% to 150% Shuts down all outputs Cycle input to restart	
Output Overpower Protection	250 W Min., Output 1 and 2 Outputs, cycle on/off, auto recovery	
Output Overcurrent Protection	110% Min., Outputs 3 & 4	
Hold Up Time	20 mS min., 225W Output, 120V Input	
Start Up Time	3 Seconds	

INPUT SPECIFICATIONS

Source Voltage	85 - 264 Volts AC
Frequency Range	47 - 63 Hz
Source Current	
True RMS	4.25A at 85V Input
Peak Inrush	30A
Peak Repetitive	6.0A at 85V Input
Harmonic Distortion	0.05
Efficiency	.68-.80 (varies by model)
Power Factor	0.92 (225 Watts, 230V)

ENVIRONMENTAL SPECIFICATIONS

Ambient Operating	0° C to + 70° C
Temperature Range	Derating: See Power Rating Chart
Ambient Storage Temp. Range	- 40° C to + 85° C
Temperature Coefficient	Outputs 1 - 4: 0.02%/°C

GENERAL SPECIFICATIONS

Means of Protection	
Primary to Secondary	2MOPP (Means of Patient Protection)
Primary to Ground	1MOPP (Means of Patient Protection)
Secondary to Ground	Operational Insulation (Consult factory for 1MOOP or 1MOPP)
Dielectric Strength ⁽¹⁴⁾	
Reinforced Insulation	5656 VDC, Primary to Secondary, 1 Sec.
Basic Isulation	2545 VDC, Primary to Ground, 1 Sec.
Operational Insulation	707 VDC, Secondary to Ground, 1 Sec.
Leakage Current	
Earth Leakage	<300uA NC, <1000uA SFC
Touch Current	<100uA NC, <500uA SFC
Power Fail Signal (optional)	Logic low with input power failure 10 mS minimum prior to Output 1 drooping 1%
Remote On/Off (optional)	Contact closure shuts off all outputs
Remote Sense	250mV compensation of output cable losses
Mean-Time Between Failures	100,000 Hours min., MIL-HDBK-217F, 25° C, GB
Weight	3.00 Lbs.

ORDERING INFORMATION

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 |

