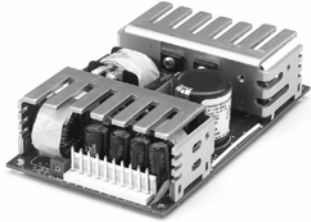


110 WATTS

DC4-110 SERIES DC-DC

FEATURES:

- RoHS Compliant
- 36-72 VDC INPUT
- Advanced SMT Design
- Compact 3" x 5" x 1.32" Size
- 2 Year Warranty
- One to Four Outputs
- 4242 VDC Reinforced Insulation
- Fits 1U Applications
- EN 60950-1 ITE Certification
- EN 60601-1 Medical Certification
- Size & Pin compatible with REL-110 Series
- Optional Chassis and Cover



OPEN FRAME



CHASSIS/COVER

SAFETY SPECIFICATIONS

	Underwriters Laboratories	UL 60950-1 2 nd Edition, 2007
	Laboratories	UL 60601-1 1 st Edition, 2006
	File E137708/E140259	AAMI/ANSI ES6060-1, 2005
		CB Reports/Certificates (including all National and Group Deviations)
	UL Recognition	IEC 60950-1/A1:2009, Second Edition
	Mark for Canada	IEC 60601-1:1988 +A1:1991 +A2:1995
	File E137708/E140259	IEC 60601-1:2005 Third Edition
		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
	TUV	EN 60950-1/A12:2011
		EN 60601-1/A2:1995
		EN 60601-1:2006
		RoSH Directive (Recast)
		(2011/65/EU of June 2011)

MODEL LISTING

MODEL	OUTPUT 1 ⁽⁸⁾	OUTPUT 2 ⁽⁸⁾	OUTPUT 3 ⁽⁷⁾	OUTPUT 4 ⁽⁷⁾
DC4-110-4001	+3.3V/10A ⁽¹⁾	+5V/6A	+12V/2A	-12V/2A
DC4-110-4002	+5V/10A ⁽¹⁾	+3.3V/6A	+12V/2A	-12V/2A
DC4-110-4003	+5V/10A ⁽¹⁾	+3.3V/6A	+15V/2A	-15V/2A
DC4-110-4004	+5V/10A ⁽¹⁾	-5V/6A	+12V/2A	-12V/2A
DC4-110-4005	+5V/10A ⁽¹⁾	-5V/6A	+15V/2A	-15V/2A
DC4-110-4006	+5V/10A ⁽¹⁾	+24V/2A	+12V/2A	-12V/2A
DC4-110-4007	+5V/10A ⁽¹⁾	+24V/2A	+15V/2A	-15V/2A
DC4-110-3001	+5V/10A ⁽¹⁾	+12V/3A		-12V/3A
DC4-110-3002	+5V/10A ⁽¹⁾	+15V/2A		-15V/2A
DC4-110-2001	+3.3V/10A ⁽¹⁾	+5V/6A		
DC4-110-2002	+5V/10A ⁽¹⁾	+12V/5A		
DC4-110-2003	+5V/10A ⁽¹⁾	+24V/3A		
DC4-110-2004	+12V/5A	-12V/4A		
DC4-110-2005	+15V/4A	-15V/3A		
DC4-110-1001	2.5V/22A ⁽²⁾			
DC4-110-1002	3.3V/22A ⁽²⁾			
DC4-110-1003	5V/22A ⁽²⁾			
DC4-110-1004	12V/9.2A			
DC4-110-1005	15V/7.3A			
DC4-110-1006	24V/4.6A			
DC4-110-1007	28V/3.9A			
DC4-110-1008	48V/2.3A			

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, 110W unless otherwise stated, may vary by model and are subject to change without notice.
 Specify optional chassis and cover, power good or reverse input protection when ordering.

OUTPUT SPECIFICATIONS

Total Output Power at 50° C	80W	Convection Cooled
	110W	300 LFM Forced Air
Output Voltage Centering	Output 1: ± 0.5% Output 2: ± 5.0% Output 3: ± 5.0% Output 4: ± 5.0%	(All outputs at 50% load)
Output Voltage Adjust Range	Output 1: 95 - 105%	
Load Regulation	Output 1: 0.5% Output 2: 5.0% (4001-5 Models) (2001 Model) 6.0% Output 3: 5.0% Output 4: 5.0%	(10-100% load change)
Source Regulation	Outputs 1 - 4: 0.5%	
Cross Regulation	Outputs 2 - 4: 5.0%	
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%	
Output Overpower Protection	110-160% rated Pou, cycle on/off, auto recovery	
Start Up Time	5 Seconds	

INPUT SPECIFICATIONS

Input Voltage Range	36-72 VDC
Input Under-Voltage Lockout	
Turn-On Voltage	29.0-35.0 VDC
Turn-Off Voltage	28.0-34.0 VDC
Input Overvoltage Shutdown	77.0-85.0 VDC
Maximum Input Current	4.2 A
Reflected Ripple Current	5 %
Efficiency	82% Typ., Full Power, 48VDC, varies by model

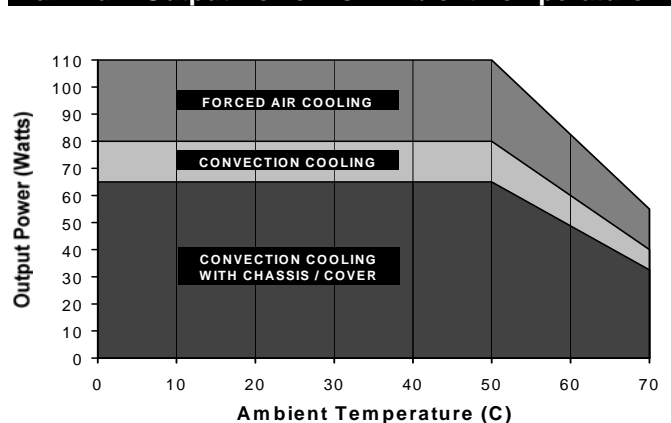
ENVIRONMENTAL SPECIFICATIONS

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	2MOOP (Means of Operator Protection)
Primary to Ground	1MOOP (Means of Operator Protection)
Secondary to Ground	Operational Insulation (Consult factory for 1MOOP or 1MOPP)
Dielectric Strength ⁽¹⁷⁾	
Reinforced Insulation	4242 VDC, Primary to Secondary, 1 Sec.
Basic Insulation	2121 VDC, Primary to Ground, 1 Sec.
Operational Insulation	707 VDC, Secondary to Ground, 1 Sec.
Power Good Signal	Logic high with input voltage above Vin min.
Remote Sense (singles only)	250mV compensation of output cable losses
Mean-Time Between Failures	100,000 Hours min., MIL-HDBK-217F, 25° C, GB
Weight	0.65 Lbs. Open Frame 1.15 Lbs. Chassis and Cover

Maximum Output Power vs. Ambient Temperature



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