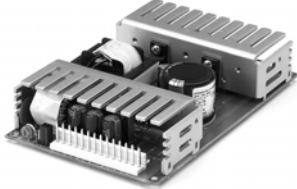


150 WATTS

DC4-150 SERIES DC-DC

FEATURES:

- RoHS Compliant
- 36-72 VDC Input
- Advanced SMT Design
- Compact 3.83" 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-150 Series
- Optional Chassis and Cover



OPEN FRAME



CHASSIS/COVER

SAFETY SPECIFICATIONS

	Underwriters Laboratories	UL 60950-1 2 nd Edition, 2007
	File E137708/E140259	UL 60601-1 1 st Edition, 2006 AAMI/ANSI ES6060-1, 2005
	CB Reports/Certificates (including all National and Group Deviations)	
	IEC 60950-1/A1:2009, Second Edition IEC 60601-1:1988 +A1:1991 +A2:1995 IEC 60601-1:2005 Third Edition	
	UL Recognition Mark for Canada	CAN/CSA-C22.2 No. 60950-1-07, 2 nd Edition
	File E137708/E140259	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⁾
DC4-150-4001	+3.3V/15A ⁽¹⁾	+5V/8A	+12V/2A	-12V/2A
DC4-150-4002	+5V/15A ⁽¹⁾	+3.3V/8A	+12V/2A	-12V/2A
DC4-150-4003	+5V/15A ⁽¹⁾	+3.3V/8A	+15V/2A	-15V/2A
DC4-150-4004	+5V/15A ⁽¹⁾	-5V/8A	+12V/2A	-12V/2A
DC4-150-4005	+5V/15A ⁽¹⁾	-5V/8A	+15V/2A	-15V/2A
DC4-150-4006	+5V/15A ⁽¹⁾	+24V/3A	+12V/2A	-12V/2A
DC4-150-4007	+5V/15A ⁽¹⁾	+24V/3A	+15V/2A	-15V/2A
DC4-150-3001	+5V/15A ⁽¹⁾	+12V/4A		-12V/3A
DC4-150-3002	+5V/15A ⁽¹⁾	+15V/3A		-15V/2A
DC4-150-2001	+3.3V/15A ⁽¹⁾	+5V/8A		
DC4-150-2002	+5V/15A ⁽¹⁾	+12V/5A		
DC4-150-2003	+5V/15A ⁽¹⁾	+24V/3A		
DC4-150-2004	+12V/7.5A	-12V/5A		
DC4-150-2005	+15V/5A	-15V/5A		
DC4-150-1001	2.5V/30A ⁽²⁾			
DC4-150-1002	3.3V/30A ⁽²⁾			
DC4-150-1003	5V/30A ⁽²⁾			
DC4-150-1004	12V/12.5A			
DC4-150-1005	15V/10.0A			
DC4-150-1006	24V/6.3A			
DC4-150-1007	28V/5.4A			
DC4-150-1008	48V/3.1A			

ORDERING INFORMATION

Please specify the following optional features when ordering:

- CH - Chassis
CO - Cover
I/O - Isolated outputs
TS - Terminal Strip

OUTPUT SPECIFICATIONS

Total Output Power at 50°C	100W	Convection Cooled
	150W	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) 8.0% (2001 Model) 6.0% Output 3: 5.0% Output 4: 5.0%	(10-100% load change) (10-100% load change) (20-100% load change) (20-100% load change) (10-100% load change) (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 Pout, 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	6.0 A
Reflected Ripple Current	5 %
Efficiency	82% Typ., Full Power, 48 VDC, 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	250mV compensation of output cable losses
Mean-Time Between Failures	100,000 Hours min., MIL-HDBK-217F, 25° C, GB
Weight	0.90 Lbs. Open Frame 1.60 Lbs. Chassis and Cover

MAXIMUM OUTPUT POWER VS. AMBIENT TEMPERATURE

