

15A SERIES

15 WATT DC/DC CONVERTER

KEY FEATURES

- Wide Input Range: 2:1
- Efficiencies to 80%
- L-C Input Filter
- Overload/Short Circuit Protection,
- Overvoltage Protection (Output)
- No Derating To 71°C
- Designed To Meet FCC SEC 15, Sub-part J, Class B Radiated and Conducted
- Six-sided Shielding
- Three Year Warranty



SPECIAL FEATURES

- Low Input Current Ripple
- 3000V Isolation
- Optional Remote On/Off
- Tested And Certified To EN60950

APPLICATIONS

- Telecommunications Equipment
- Industrial Control Systems
- Digital Circuits
- Analog Systems
- Private Branch Exchange (PBX, PABX)
- Distributed Power Systems

DESCRIPTION

The 15A series of DC/DC converters operates from a nominal 24 or 48 VDC input source. The range comprises both single and dual output models. Maximum output power is 15 watts. These board mountable, low profile DC/DC converters are ideal for the requirements of the industrial control and telecommunications industries.

SELECTION GUIDE

Standard Products

DEVICE TYPE	INPUT VOLTAGE RANGE VDC	INPUT CURRENT A (MAX)	OUTPUT VOLTAGE VDC	OUTPUT CURRENT ma (MAX)	PACKAGE/ PINOUT
15A24RN5	18 - 36	.840	+ or -5	3000	A
15A24RN12	18 - 36	.840	+ or -12	1250	A
15A24RN15	18 - 36	.840	+ or -15	1000	A
15A24RN12-12	18 - 36	.840	± 12	625	A
15A24RN15-15	18 - 36	.840	±15	500	A
15A48RN5	36 - 72	.420	+ or -5	3000	A
15A48RN12	36 - 72	.420	+ or -12	1250	A
15A48RN15	36 - 72	.420	+ or -15	1000	A
15A48RN12-12	36 - 72	.420	±12	625	A
15A48RN15-15	36 - 72	.420	±15	500	A



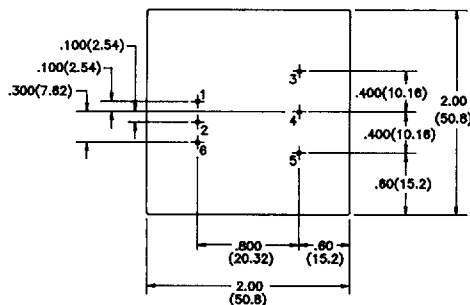
GENERAL ELECTRICAL SPECIFICATIONS

(Specifications at Nominal Input and 25°C)

PARAMETER	LIMIT	CONDITIONS
Input Voltage Range	18 - 36 VDC	24V Input Devices
Input Filter	36 - 72 VDC	48V Input Devices
Input Ripple Current	L-C Section	
Input/Output Isolation	50 mA (P-P)	20MHz Bandwidth
Output Voltage Accuracy	3000 VDC	
	2%	Full Load
Minimum Load	10% of Full Load	Nominal Line
Output Ripple: All Units	100 mV (P-P)	20 MHz Bandwidth
Line Regulation: Singles	0.5%	Full Load
Duals	0.5%	Full Load
Load Regulation: Singles	0.5%	10% to 100% of Full Load
Duals	0.5%	20% to 100% of Full Load
Efficiency	Up to 80%	
Operating Temperature	-25°C to +71°C	No Derating
Storage Temperature	-55°C to 125°C	
Short Circuit Protection	Continuous	
Overshoot Protection	6.2 VDC	5.0 VDC Output
	14 VDC	12.0 VDC Output
	17 VDC	15.0 VDC Output
Temperature Coefficient	.02%/°C	

Remote On/Off - TTL compatible - unit off when low. Add SD to part number when ordering.

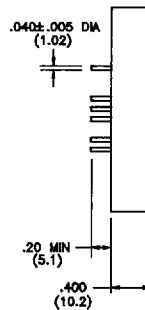
MECHANICAL SPECIFICATIONS



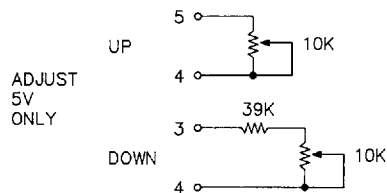
BOTTOM VIEW

NOTES:

- ALL DIMENSIONS IN PARENTHESES ARE METRIC.
- TOLERANCES UNLESS OTHERWISE SPECIFIED: .XX = ± 0.03 (.76)
.XXX = ± 0.015 (.38)
- PIN 6 IS OPTIONAL.



PIN	SINGLE OUTPUT	PIN	DUAL OUTPUT
1	+INPUT	1	+INPUT
2	-INPUT	2	-INPUT
3	+OUTPUT	3	+OUTPUT
4	ADJUST (5V ONLY)	4	OUTPUT COMMON
5	OUTPUT COMMON	5	-OUTPUT
6	REMOTE ON/OFF	6	REMOTE ON/OFF



PIN 4, NO CONNECTION IF TRIMMING IS NOT DESIRED.

Reliability Incorporated
P.O. Box 218370
Houston, TX 77218
TEL: (713) 492-0550
FAX: (713) 492-0615

East Coast Sales Office
P.O. Box 157
Dunstable, MA 01827
TEL: (508) 937-4055
FAX: (508) 649-9319

Reliability Singapore Pte. Ltd.
5004 Ang Mo Kio
Avenue 5, #04-01
Singapore 2056
TEL: 65-481-9266
FAX: 65-481-2612

RICR de Costa Rica S.A.
P.O. Box 1-3006
Zone Franca Metropolitana
Barreal, Heredia
Costa Rica, A.C.
TEL: 506-293-4384
FAX: 506-293-4621

European Sales Office
P.O. Box 87
Newbury
Berkshire, RG14 6YT
England
TEL: 44-635-522298
FAX: 44-635-580870

Copyright© 1994, Reliability Incorporated.
Reliability reserves the right to make changes in the product at any time, without notification.

12-44-12M-694

These products are not authorized for use as critical components in life support devices or systems without the express written approval of an officer of Reliability Incorporated.

7652818 0000165 662