

5 Watt Regulated DC/DC Converters

Key Features

- High Density, 12.5 W/cu.in.
- Wide Input Ranges
- Overload/Short Circuit Protection
- SMD Technology
- FCC Section 15 Sub Part J,
- Class A Radiated and Conducted
- CE (LVD)
- L-C Input Filter
- UL, CSA Approved (48Vi only)
- Remote On/Off
- 1500 VDC Isolation



Applications

- Wireless Communications
- Satellite Guidance Systems
- Cellular Base Stations
- Analog Systems
- Private Branch Exchanges (PBX, PABX)
- Distributed Power Systems
- Industrial Control Systems

General Electrical Specifications

(Specifications at Nominal Input and 25 C, nominal input voltage and rated output current unless otherwise noted.)

PARAMETER	LIMITS	CONDITIONS
Input Voltage Range	See Selection Guide)	
Input Filter	Common Mode Section	
Input Ripple Current	200 ma (P-P)	Typical
Input/Output Isolation	1500 VDC	
Output Voltage Accuracy	2%	Full Load Nominal Line
Minimum Load	10% of Full Load	
Output Noise	100mV (P-P)	20 MHZ Bandwidth
Line Regulation	0.5%	Full Load
Load Regulation	0.5%	10% to 100% of Full Load
Efficiency	80% Typical 76% Typical	5, 12V Output 2.5, 3.3V Output
Remote On/Off	Active Low	With respect to Pin 1
Operating Temperature	-40 °C to +85 °C	No Derating
Storage Temperature	-55 °C to +125 °C	
Short Circuit Protection	Continuous	
Oversvoltage Protection	3.3 VDC 4.3 VDC 6.2 VDC 15 VDC 18 VDC	2.5 VDC Output 3.3 VDC Output 5.0 VDC Output 12 VDC Output 15 VDC Output

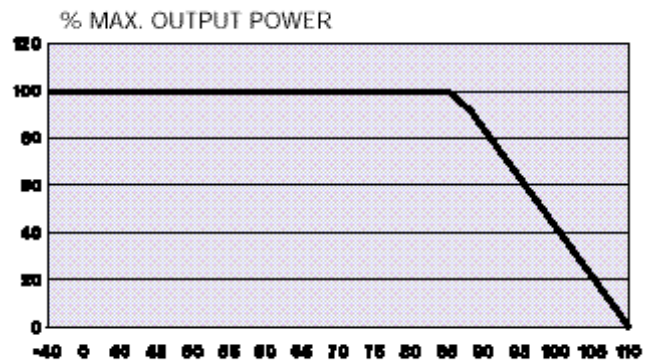
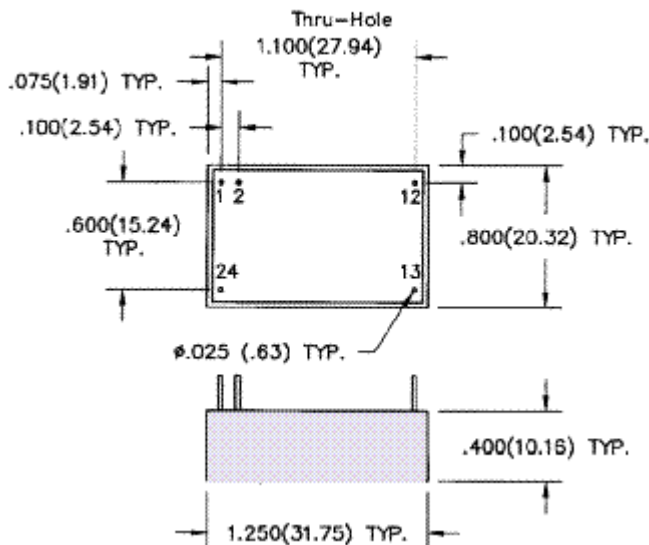
NOTE: During testing, the 10% minimum load should be resistive. If an active load is used, it must become active at approximately 80% of the power supply output.

SELECTION GUIDE

Device Type	Input Voltage	Input Current A (Max)	Output Voltage	Output Current A (Max)
5H18R5	9-36	0.380	4.90 – 5.10	1.0
5H24R5	12-36	0.270	4.90 – 5.10	1.0
5HI24R5	12-36	0.270	4.90 – 5.10	1.0
5H24R9	12-36	0.265	8.82 – 9.18	0.56
5H24R15	12-36	0.261	14.7 - 15.3	0.33
5H48R2.5	18-75	0.137	2.45 - 2.55	2.0
5H48R3.3	18-75	0.135	3.23 - 3.37	1.5
5H48R5	18-75	0.132	4.90 - 5.10	1.0
5HI48R5	18-75	0.132	4.90 - 5.10	1.0
5HI48R5HV	18-75	0.132	4.90 - 5.10	1.0
5H48R12	18-75	0.132	11.76 - 12.24	0.42

Pin Connections: “5H” model types “5HI” model types

Pin #	Function	Function
1	- Input	+ Input
2	Enable	NC
12	- Output	- Output
13	+ Output	+ Output
24	+ Input	- Input

Mechanical Specification (dimensions in inches)
WEIGHT: 15 GRAMS
TEMPERATURE DERATING

AMBIENT TEMPERATURE: DEG. C
NOTES (ALL DEVICES & PACKAGES):

- All dimensions in parentheses are metric.
- Tolerances unless otherwise specified:
 .xx ± .03 (.76) .xxx = ± .015 (.38)

Reliability Power Locations	
HEADQUARTERS & CUSTOMER SERVICE	SALES
Reliability Power, Incorporated 33 Musick Irvine, CA 92618 USA Tel: (949) 305-6700 Fax: (949) 305-6701 www.reliabilitypower.com	Reliability Power, Incorporated Attention: SALES Tel: (805) 449-1667 Fax: (805) 557-4530 sales@reliabilitypower.com