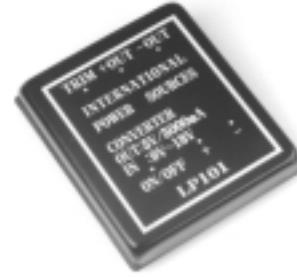


International Power Sources, Inc.

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 Holliston, Massachusetts 01746
 Tel. (508) 429-4440 Fax (800) 226-2100
<http://www.intlpower.com>

DC/DC Converters



LP Series: 25/30 WATT Low Profile

FEATURES

- 2:1 Input Range
- Isolated Outputs
- Efficiency to 84%
- 100 kHz Switching Frequency
- External Output Trim
- Remote Disable
- Six-sided Shield
- PCB Mountable

MODELS CHART

INPUT MODEL NUMBER	VOLTAGE RANGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENTS		% EFF
				NO LOAD	FULL LOAD	
LP101	9-18VDC	5VDC	5000mA	30mA	2670mA	78
LP102	9-18VDC	12VDC	2000mA	30mA	2500mA	80
LP103	9-18VDC	15VDC	1650mA	30mA	2575mA	80
LP104	9-18VDC	±5VDC	±2500mA	30mA	2670mA	78
LP105	9-18VDC	±12VDC	±1000mA	30mA	2500mA	80
LP106	9-18VDC	±15VDC	±830mA	30mA	2590mA	80
LP107	9-18VDC	5/±12VDC	2500/±500mA	30mA	2550mA	80
LP108	9-18VDC	5/±15VDC	2500/±400mA	30mA	2550mA	80
LP201	18-36VDC	5VDC	5000mA	20mA	1560mA	66
LP202	18-36VDC	12VDC	2000mA	20mA	1525mA	66
LP203	18-36VDC	15VDC	1650mA	20mA	1525mA	68
LP204	18-36VDC	±5VDC	±2500mA	20mA	1560mA	67
LP205	18-36VDC	±12VDC	±1000mA	20mA	1525mA	66
LP206	18-36VDC	±15VDC	±830mA	20mA	1525mA	71
LP207	18-36VDC	5/±12VDC	3000/±625mA	20mA	1520mA	82
LP208	18-36VDC	5/±15VDC	3000/±500mA	20mA	1525mA	82
LP301	36-72VDC	5VDC	5000mA	20mA	760mA	69
LP302	36-72VDC	12VDC	2000mA	20mA	745mA	67
LP303	36-72VDC	15VDC	1650mA	20mA	740mA	70
LP304	36-72VDC	±5VDC	±2500mA	20mA	760mA	69
LP305	36-72VDC	±12VDC	±1000mA	20mA	740mA	68
LP306	36-72VDC	±15VDC	±830mA	20mA	740mA	70
LP307	36-72VDC	5/±12VDC	3000/±625mA	20mA	745mA	84
LP308	36-72VDC	5/±15VDC	3000/±500mA	20mA	745mA	84

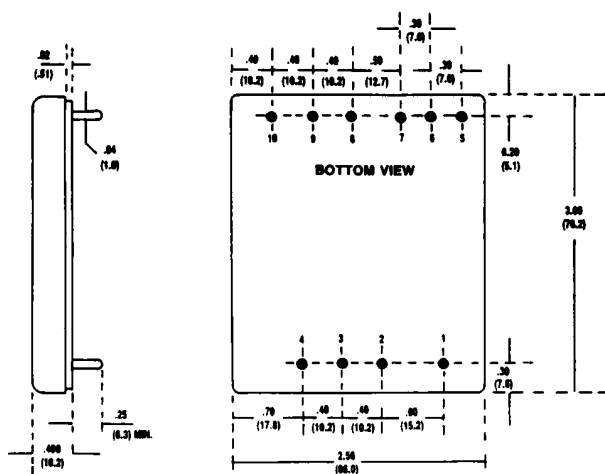
NOTE: Nominal Input Voltage 12, 24, or 48 VDC

ELECTRICAL SPECIFICATIONS

All specifications typical at nominal line, full load and 25°C

OUTPUT SPECIFICATIONS		INPUT SPECIFICATIONS	
Voltage Accuracy	Single Output .....±1% max. Dual Output .....±1% max. Triple 5V .....±2% max. 12V/15V .....±1% max.	Input Voltage Range	.....See Table
Voltage Balance, Dual Output at	Full Load .....±1% max.	Input Filter	.....π Type
Transient Response:		Reverse Voltage Protection ³	.....Internal Shunt Diode Use External Fuse
Single, 25% Step Load Change	.....<500μ sec.	GENERAL SPECIFICATIONS	
Dual, FL-1/2L±1% Error Band	.....<500μ sec.	Efficiency	.....See Table
External Trim Adj. Range	.....±5%	Isolation Voltage	.....500VDC min.
Ripple & Noise, 20MHz BW	.....10mV RMS, max. 1% P-P max	Isolation Resistance	.....10 ⁹ ohms min.
Temperature Coefficient	.....±0.02%/°C max.	Switching Frequency	.....100kHz
Short Circuit Protection	.....Indefinite	Case Grounding	.....Capacity Coupled to Input
Overvoltage Protection, 5V	.....6.8V	Operating Temperature Range	.....-25°C to +71°C
12V	.....15V	Storage Temperature Range	.....-55°C to +125°C
15V	.....18V	EM/RFI	.....Six-sided Continuous Shield
Line Regulation ¹ :	Single Output .....±0.5% max. Dual/Triple Output .....±1% max.	Dimensions	.....2.56 x 3.0 x 0.40 inches (65 x 76.2 x 10.2 mm)
Load Regulation ² :	Single/Dual Output .....±1% max. Triple Output .....±2% max.	Case Material	.....Black Coated Copper with Non-Conductive Base

DIMENSIONS AND CONNECTIONS



NOTE:

1. Measured from High Line to Low Line.
2. Measured from Full Load to 1/4 Full Load.
3. Determine the correct fuse size by calculating the maximum DC current drain at low line input, maximum load and then adding 20 to 25% to get the desired fuse size.
4. A 10% minimum load is required on dual and triple output models for rated performance.

Dimensions in inches (mm)
Specifications subject to change.

PIN	SINGLE OUTPUT	DUAL OUTPUT	TRIPLE OUTPUT
1	REMOTE ON/OFF	REMOTE ON/OFF	REMOTE ON/OFF
2	+ INPUT	+ INPUT	+ INPUT
3	- INPUT	- INPUT	- INPUT
4	NO PIN	NO PIN	NO PIN
5	NO PIN	+ OUTPUT	+ OUTPUT
6	OUTPUT TRIM	COMMON	COMMON
7	NO PIN	- OUTPUT	- OUTPUT
8	+ OUTPUT	OUTPUT TRIM	+5V OUTPUT
9	- OUTPUT	NO PIN	NO PIN
10	NO PIN	NO PIN	OUTPUT TRIM

REMOTE ON/OFF CONTROL	
Logic Compatibility	.....CMOS or Open Collector TTL
E _c -ON,	.....>+5.5 VDC or Open Circuit
E _c -OFF,	.....<0.8 VDC
Shutdown Idle Current	.....10mA
Input Resistance	.....(E _{in} 0 VDC to 9 VDC) 100KΩ
Control Common	.....Referenced to input Minus

