

UP TO 15 WATTS - LW SERIES

Ultra-Wide Input, Low Profile, Triple Output Protection

FEATURES

- ◆ Ultra-Wide Input Voltage Range (4:1)
- ◆ Single, Dual, and Triple Outputs
- ◆ Industry Standard Pin-Out
- ◆ Over-Temperature Shutdown
- ◆ 200kHz Fixed Switching Frequency
- ◆ Current Limiting and Continuous Short Circuit Protection
- ◆ Five Year Warranty



THE LW SERIES FROM WALL INDUSTRIES

The LW Series is a family of ultra wide input voltage range (4:1), highly efficient, 15 watt DC/DC converters. Features include a pi-input filter to reduce input reflected ripple, continuous short circuit protection with over-temperature shutdown and 500 VDC (minimum) input/output isolation. The LW Series is ideally suited for any telecommunications, automotive test equipment, process control, minicomputers, or geosurvey equipment applications demanding variable input voltage ranges and high reliability.

SPECIFICATIONS: LW SERIES

All specifications apply @ +25 C ambient unless otherwise noted.

INPUT SPECIFICATIONS

Input Voltage Range	9-36, 20-72VDC
Nominal Input	24VDC, 48VDC
Input Filter	Pi Input

OUTPUT SPECIFICATIONS

Output Current	see table
Voltage Tolerance	± 1% singles, ± 3% duals.
Thermal Shutdown	approx. +100°C (case)
Line Regulation	± 0.5%
Load Regulation	± 0.5%
Short Circuit Protection	continuous current limiting,
Ripple/Noise (20MHz BW)	≤ 50mV P-P
Over Voltage Protection	see table

GENERAL SPECIFICATIONS

Efficiency	83% typical
Isolation Voltage (input to output)	500VDC min.
Isolation Resistance (input to output)	1000MΩ
Switching Frequency	200kHz typical

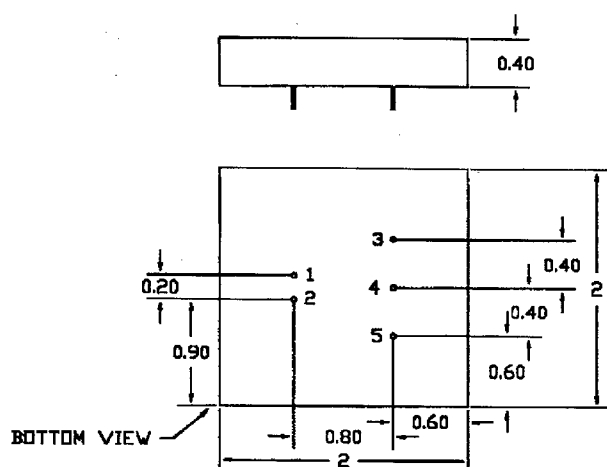
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-25 to +85°C (case)
Storage Temperature	-55 to +100°C
Humidity (non-condensing)	20 - 95% R.H.

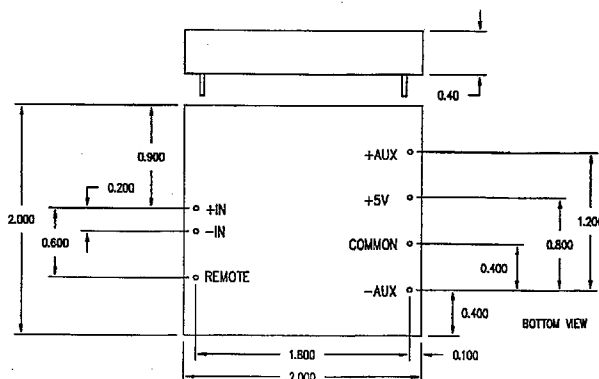
PHYSICAL SPECIFICATIONS

Weight	2.3 oz.
Case Material	Black coated metal, non-cond. baseplate
Shielding	Shielded case

Due to advances in technology, specifications subject to change without notice.



Single and Dual Pin-Out



Triple Pin-Out

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (A)	Model Number
4.5 - 9	5	3.0	LCSW55-15
	12	1.25	LCSW512-15
	15	1.0	LCSW515-15
	± 12	0.625	LCDW512-15
	± 15	0.5	LCDW515-15
	+5/± 12	2.52/± 0.1	LTW512-15
	+5/± 15	2.4/± 0.1	LTW515-15
9 - 36	5	3.0	LCSW245-15
	12	1.25	LCSW2412-15
	15	1.0	LCSW2415-15
	± 12	0.625	LCDW2412-15
	± 15	0.5	LCDW2415-15
	+5/± 12	2.52/± 0.1	LTW2412-15
	+5/± 15	2.4/± 0.1	LTW2415-15
20 - 72	5	3.0	LCSW485-15
	12	1.25	LCSW4812-15
	15	1.0	LCSW4815-15
	± 12	0.625	LCDW4812-15
	± 15	0.5	LCDW4815-15
	+5/± 12	2.52/± 0.1	LTW4812-15
	+5/± 15	2.4/± 0.1	LTW4815-15

PIN CONNECTIONS	LW SERIES		
	Single	Dual	Triple
1	+ Vin	+ Vin	See
2	- Vin	- Vin	Pin
3	+ Vout	+ Vout	Connections
4	No Pin	Common	On
5	- Vout	- Vout	Diagram

Notes:

1. All case and pin to case dimensions reference only unless otherwise noted.
2. All DC/DC converters should be externally fused for protection.
3. Significant capacitive load may impact start-up and operation, consult factory.
4. For Remote On/Off, add "R" to end of part number. Available on triple output units only.