

UP TO 15 WATTS - LW SERIES

Ultra-Wide Input, Low Profile

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

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, 20-75VDC
 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 Protectioncontinuous 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).....1000MOhms
 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.....Six-sided

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

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (A)	Model Number
9 - 36	3.3	4.50	LCSW243.3-15
	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 - 75	3.3	4.50	LCSW483.3-15
	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

	Single	Dual	Triple
1	+ Vin	+ Vin	+Vin
2	- Vin	- Vin	-Vin
3	+ Vout	+ Vout	Remote On/Off
4	No Pin	Common	+Vout
5	- Vout	- Vout	+5Vout
6			Common
7			-Vout

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.

