

Regulated DC/DC Converter 10Watt

2:1 Input Range

KW10 Series

FEATURES:

- Input/Output Isolation
- Efficiency up to 86% @ FL
- Switching Frequency - 100KHz Min.
- Short Circuit Protection
- Six Sided Shielding
- Compact Size
- Single, Dual, Triple Outputs
- Epoxy Encapsulated

SPECIFICATIONS

INPUT

Voltage Range

12Vdc Input: 9-18Vdc

24Vdc Input: 18-36Vdc

48Vdc Input: 36-72Vdc

OUTPUT

Voltage Accuracy: $\pm 1\%$

Line Regulation: $\pm 0.1\%$

Load Regulation: $\pm 0.5\%$

Ripple & Noise (20MHz BW): 50 mV P-P Max

Transient Response: < 250 μ sec

Protection: Over current protection

Short circuit protection

GENERAL

Efficiency Up to 86% @ FL

Isolation Voltage: 500 Vdc Min.

(Up to 3000 Vdc Min. Optional)

Isolation Resistance: 100 Mohms

Switching Frequency: 100KHz Min.

ENVIRONMENTAL

Operating Temperature Range: -25°C to +71°C

Storage Temperature Range: -50°C to +105°C

Temperature Coefficient: 0.02% / °C Max

Cooling: Free air convection

EMI/RFI: Five-sided shield

Six-sided shield (optional)

Typical a 25°C under full load and nominal input voltage unless otherwise specified.



10W DC/DC CONVERTER

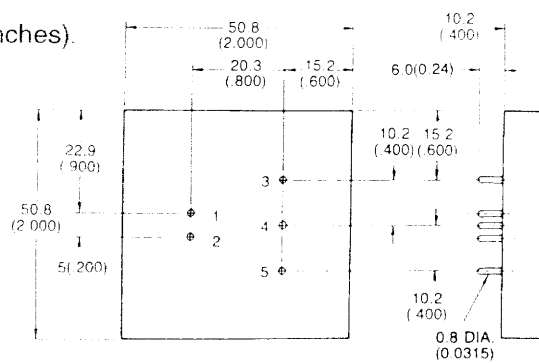
	INPUT VOLTAGE	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	MODEL NO.	CASE	PRICE 1-9 QTY.
SINGLE OUTPUT	12 \ DC (9- 8)	5	2000	KW10-12S5	B2	\$76.00
		12	840	KW10-12S12	B2	\$76.00
		15	664	KW10-12S15	B2	\$76.00
	24 \ DC (18-36)	5	2000	KW10-24S5	B2	\$76.00
		12	840	KW10-24S12	B2	\$76.00
		15	664	KW10-24S15	B2	\$76.00
	48 \ DC (36-72)	5	2000	KW10-48S5	B2	\$76.00
		12	840	KW10-48S12	B2	\$76.00
		15	664	KW10-48S15	B2	\$76.00
DUAL OUTPUT	12 \ DC (9- 8)	± 5	± 1000	KW10-12-5	B2	\$81.00
		± 12	± 420	KW10-12-12	B2	\$81.00
		± 15	± 332	KW10-12-15	B2	\$81.00
	24 \ DC (18-36)	± 5	± 1000	KW10-24-5	B2	\$81.00
		± 12	± 420	KW10-24-12	B2	\$81.00
		± 15	± 332	KW10-24-15	B2	\$81.00
	48 \ DC (36-72)	± 5	± 1000	KW10-48-5	B2	\$81.00
		± 12	± 420	KW10-48-12	B2	\$81.00
		± 15	± 332	KW10-48-15	B2	\$81.00

All Dimensions in mm (inches).

CASE B2

PIN	SINGLE	DUAL
1	+ INPUT	+ INPUT
2	- INPUT	- INPUT
3	+ OUTPUT	+ OUTPUT
4	NO PIN*	COMMON
5	- OUTPUT	- OUTPUT

*TRIM FOR 10W, 15W SERIES

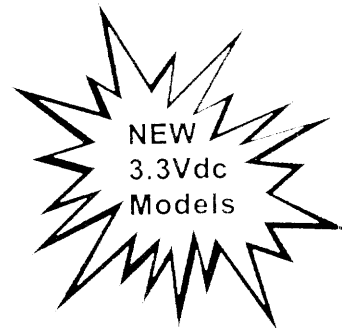


Bottom View

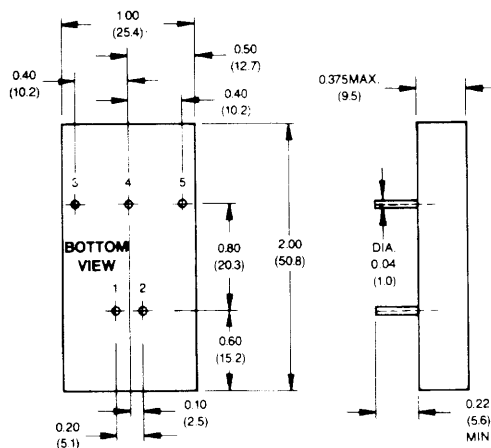
LWA10/LWB10 SERIES

REGULATED DC/DC CONVERTERS 10 WATT (CONTINUED)

2:1 INPUT RANGE		SINGLE VOLTAGE		DUAL VOLTAGE			
		INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	% EFF	POLYTRON MODEL NUMBER	PRICE 1-9 QTY.
SINGLE VOLTAGE	9-18	3.3	2000	76	LWA10-12S33	P	\$59.00
	9-18	5	2000	79	LWA10-12S5	P	\$59.00
	9-18	12	830	82	LWA10-12S12	P	\$59.00
	9-18	15	670	82	LWA10-12S15	P	\$59.00
	18-36	3.3	2000	78	LWA10-24S33	P	\$59.00
	18-36	5	2000	81	LWA10-24S5	P	\$59.00
	18-36	12	830	84	LWA10-24S12	P	\$59.00
	18-36	15	670	84	LWA10-24S15	P	\$59.00
	36-72	3.3	2000	79	LWA10-48S33	P	\$59.00
	36-72	5	2000	79	LWA10-48S5	P	\$59.00
	36-72	12	830	82	LWA10-48S12	P	\$59.00
	36-72	15	670	82	LWA10-48S15	P	\$59.00
DUAL VOLTAGE	9-18	5	1000	79	LWA10-12-5	P	\$63.00
	9-18	12	416	81	LWA10-12-12	P	\$63.00
	9-18	15	333	84	LWA10-12-15	P	\$63.00
	18-36	12	416	84	LWA10-24-12	P	\$63.00
	18-36	15	333	81	LWA10-24-15	P	\$63.00
	36-72	5	1000	79	LWA10-48-5	P	\$63.00
	36-72	12	416	82	LWA10-48-12	P	\$63.00
	36-72	15	333	82	LWA10-48-15	P	\$63.00



4:1 INPUT RANGE	SINGLE VOLTAGE	9-36	5	2000	79	LWB10-24S5	P	\$64.00
		9-36	12	830	82	LWB10-24S12	P	\$64.00
		9-36	15	670	82	LWB10-24S15	P	\$64.00
		18-72	5	2000	81	LWB10-48S5	P	\$64.00
		18-72	12	830	84	LWB10-48S12	P	\$64.00
		18-72	15	670	84	LWB10-48S15	P	\$64.00
	DUAL VOLTAGE	9-36	5	416	79	LWB10-24-5	P	\$68.00
		9-36	12	333	82	LWB10-24-12	P	\$68.00
		9-36	15	416	82	LWB10-24-15	P	\$68.00
		18-72	5	333	81	LWB10-48-5	P	\$68.00
		18-72	12	416	84	LWB10-48-12	P	\$68.00
		18-72	15	333	84	LWB10-48-15	P	\$68.00



Pin Connections		
Pin	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	Common
5	-Vout	-Vout

Options Available	Suffix	Price Adder
-40°C to +85°C Operating Temp. Range	WA	\$5.00

ALL DIMENSIONS IN INCHES(mm)