

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 usec
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 $+71^{\circ}\text{C}$
Storage Temperature Range: -50°C to $+105^{\circ}\text{C}$
Temperature Coefficient: $0.02\% / ^{\circ}\text{C}$ 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

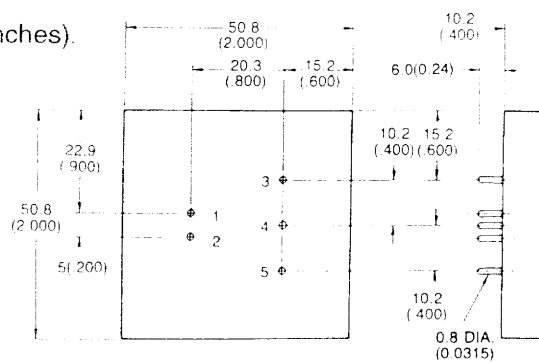
	INPUT VOLTAGE	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	MODEL NO.	CASE	PRICE 1-9 QTY.
SINGLE OUTPUT	12 \ DC (9- 8)	5	2000	KW10-12S5	B2	\$76.00
		12	840	KW10-12S12	B2	\$76.00
		15	664	KW10-12S15	B2	\$76.00
	24 \ DC (18-36)	5	2000	KW10-24S5	B2	\$76.00
		12	840	KW10-24S12	B2	\$76.00
		15	664	KW10-24S15	B2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

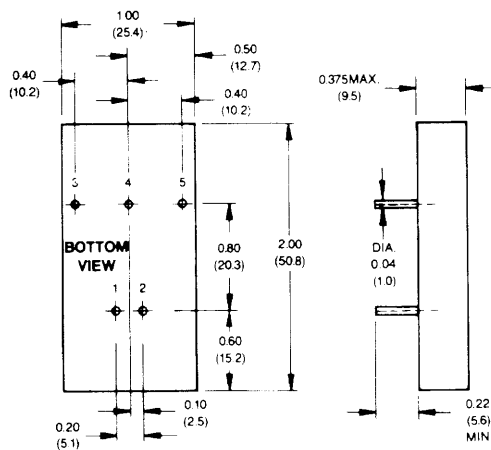
LWA10/LWB10 SERIES

REGULATED DC/DC CONVERTERS 10 WATT (CONTINUED)

2:1 INPUT RANGE	SINGLE VOLTAGE	INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	% EFF	POLYTRON MODEL NUMBER	CASE	PRICE 1-9 QTY.
		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	INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	% EFF	POLYTRON MODEL NUMBER	CASE	PRICE 1-9 QTY.
		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	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)