



10 WATT SINGLE & DUAL OUTPUT

Regulated, 2:1 Input Range DC/DC Converters



FEATURES

- **Input/Output Isolation**
- **Efficiency to 86% @ FL**
- **100KHz Min. Switching Frequency**
- **Short Circuit Protection**
- **6-Sided Shielding Available**
- **Compact Size**
- **Epoxy Encapsulated**

KW10 Series

Specifications

All specifications are typical at nominal input, full load, and 25°C , unless otherwise noted.

INPUT

Input Voltages.....	Voltage Range
12 Vdc.....	9-18 Vdc
24 Vdc.....	18-36 Vdc
48 Vdc.....	36-72 Vdc

OUTPUT

Voltage Accuracy.....	±1%
Line Regulation	±0.1%
Load Regulation.....	±0.5%
Ripple Noise (20 MHz BW).....	50mV p-p max.
Temperature Coefficient (at FL).....	±0.02%/°C max.
Transient Response, 25% load step.....	< 250µs

GENERAL

Efficiency.....	86% max. @ FL
Isolation Voltage.....	500 Vdc min.
.....	Up to 3000 Vdc min. Optional
Isolation Resistance.....	100MOhms
Switching Frequency.....	100KHz typ.
Protection.....	Over Current Protection
.....	Short Circuit Protection

ENVIRONMENTAL

Operating Temperature Range.....	-25 to +71°C
Storage Temperature Range.....	-50 to +105°C
Cooling.....	Free Air Convection
EMI/RFI.....	Five-Sided Shield
.....	Six-Sided Shield (optional)

PHYSICAL

Case Material.....	Black Coated Copper w/ Non-Conductive Metal Base
Weight.....	3 oz. (9 grams)
Dimensions.....	2.00" x 2.00" x 0.400"

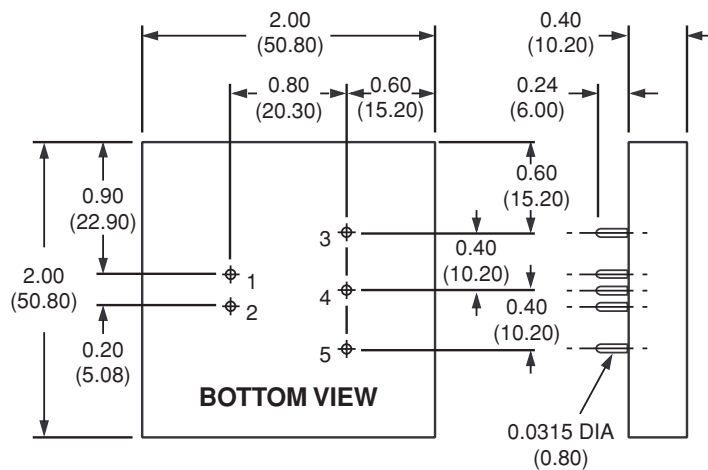
Selection Guide

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	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Model Number	Case	
SINGLE OUTPUT VOLTAGE	12 (9-18)	5	2000	KW10-12S5	B2	
		12	840	KW10-12S12	B2	
		15	664	KW10-12S15	B2	
	24 (18-36)	5	2000	KW10-24S5	B2	
		12	840	KW10-24S12	B2	
		15	664	KW10-24S15	B2	
	48 (36-72)	5	2000	KW10-48S5	B2	
		12	840	KW10-48S12	B2	
		15	664	KW10-48S15	B2	
DUAL OUTPUTS	12 (9-18)	±5	±1000	KW10-12-5	B2	
		±12	±420	KW10-12-12	B2	
		±15	±332	KW10-12-15	B2	
	24 (18-36)	±5	±1000	KW10-24-5	B2	
		±12	±420	KW10-24-12	B2	
		±15	±332	KW10-24-15	B2	
	48 (36-72)	±5	±1000	KW10-48-5	B2	
		±12	±420	KW10-48-12	B2	
		±15	±332	KW10-48-15	B2	

Mechanical Specifications

I/O Connections		
Pin	SINGLE	DUAL
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	Common
5	-Vout	-Vout



All Dimensions are in inches (mm)



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