



40 WATT SINGLE/DUAL/TRIPLE OUTPUT

Regulated, 2:1 Input Range
DC/DC Converters



FEATURES

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

KW40 Series

Specifications

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

INPUT

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

OUTPUT

Voltage Accuracy.....	±1.0%
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.....	< 250ms

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

Dimensions.....	3.94" x 2.76" x 1.35"
	(100.0 x 70.0 x 34.4 mm)

Selection Guide

(Continued)

	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Model Number	Case	
SINGLE OUTPUT VOLTAGE	12 (9-18)	5	8000	KW40-12S5	K	
		12	3400	KW40-12S12	K	
		15	2700	KW40-12S15	K	
	24 (18-36)	5	8000	KW40-24S5	K	
		12	3400	KW40-24S12	K	
		15	2700	KW40-24S15	K	
	48 (36-72)	5	8000	KW40-48S5	K	
		12	3400	KW40-48S12	K	
		15	2700	KW40-48S15	K	
DUAL OUTPUTS	12 (9-18)	±5	±4000	KW40-12-5	K	
		±12	±1670	KW40-12-12	K	
		±15	±1340	KW40-12-15	K	
	24 (18-36)	±5	±4000	KW40-24-5	K	
		±12	±1670	KW40-24-12	K	
		±15	±1340	KW40-24-15	K	
	48 (36-72)	±5	±4000	KW40-48-5	K	
		±12	±1670	KW40-48-12	K	
		±15	±1340	KW40-48-15	K	
TRIPLE OUTPUTS	12 (9-18)	5 / ±12	7000 / ±300	KW40-12S5-12	K	
		5 / ±15	6200 / ±300	KW40-12S5-15	K	
		+5 / -5 / 12	+7000 / -300 / 300	KW40-12S12-5	K	
	24 (18-36)	5 / ±12	7000 / ±300	KW40-24S5-12	K	
		5 / ±15	6200 / ±300	KW40-24S5-15	K	
		+5 / -5 / 12	+7000 / -300 / 300	KW40-24S12-5	K	
	48 (36-72)	5 / ±12	7000 / ±300	KW40-48S5-12	K	
		5 / ±15	6200 / ±300	KW40-48S5-15	K	
		+5 / -5 / 12	+7000 / -300 / 300	KW40-48S12-5	K	

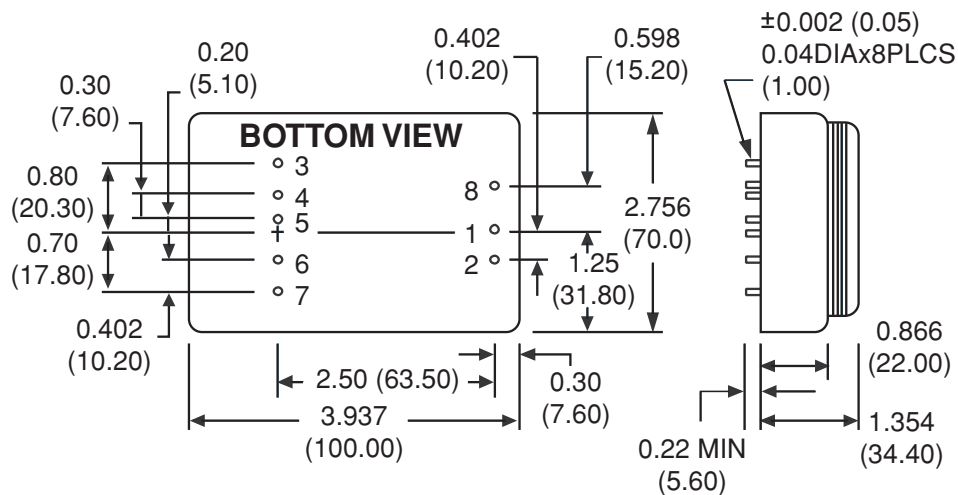
See next page for mechanical specifications.

Mechanical Specifications

I/O Connections			
Pin	SINGLE	DUAL	TRIPLE *
1	+Vin	+Vin	+Vin
2	-Vin	-Vin	-Vin
3	+Trim Down	-Vout V2	+Vout V2
4	Output Trim	Com2	Com2
5	-Trim Up	N/C	-Vout V3
6	+Vout	+Vout V1	+5 Vdc
7	-Vout	Com1	Com1
8	On/Off	On/Off	On/Off

* For $\pm 5\text{Vdc}/12\text{Vdc}$ Triple Voltage Units
 V2 = -5Vdc, V3 = +12Vdc

CASE K



All Dimensions are in Inches (mm).