

Regulated DC/DC Converter 40Watt

2:1 Input Range

KW40 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°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.

POLYTRON DEVICES INC.
PATERSON, N.J.

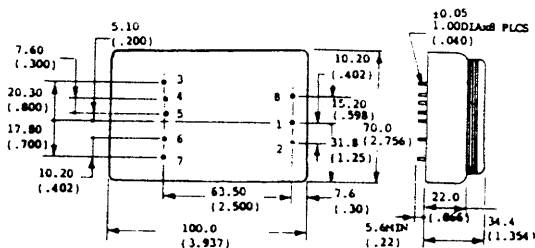
DC/DC
CONVERTERS

40W DC/DC CONVERTER

		OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	MODEL NO.	CASE	PRICE 1-9 QTY.
SINGLE OUTPUT	12 VDC (9-18)	5	8000	KW40-12S5	K	\$104.00
		12	3400	KW40-12S12	K	\$104.00
		15	2700	KW40-12S15	K	\$104.00
	24 VDC (18-36)	5	8000	KW40-24S5	K	\$104.00
		12	3400	KW40-24S12	K	\$104.00
		15	2700	KW40-24S15	K	\$104.00
	48 VDC (36-72)	5	8000	KW40-48S5	K	\$104.00
		12	3400	KW40-48S12	K	\$104.00
		15	2700	KW40-48S15	K	\$104.00
DUAL OUTPUT	12 VDC (9-18)	± 5	± 4000	KW40-12-5	K	\$112.00
		± 12	± 1670	KW40-12-12	K	\$112.00
		± 15	± 1340	KW40-12-15	K	\$112.00
	24 VDC (18-36)	± 5	± 4000	KW40-24-5	K	\$112.00
		± 12	± 1670	KW40-24-12	K	\$112.00
		± 15	± 1340	KW40-24-15	K	\$112.00
	48 VDC (36-72)	± 5	± 4000	KW40-48-5	K	\$112.00
		± 12	± 1670	KW40-48-12	K	\$112.00
		± 15	± 1340	KW40-48-15	K	\$112.00
TRIPLE OUTPUT	12 VDC (9-18)	5/ $\pm$ 12	7000/ $\pm$ 300	KW40-12S5-12	K	\$118.00
		5/ $\pm$ 15	6200/ $\pm$ 300	KW40-12S5-15	K	\$118.00
		+ 5/-5/+ 12	7000/300/300	KW40-12S12-5	K	\$118.00
	24 VDC (18-36)	5/ $\pm$ 12	7000/ $\pm$ 300	KW40-24S5-12	K	\$118.00
		5/ $\pm$ 15	6200/ $\pm$ 300	KW40-24S5-15	K	\$118.00
		+ 5/-5/+ 12	7000/300/300	KW40-24S12-5	K	\$118.00
	48 VDC (36-72)	5/ $\pm$ 12	7000/ $\pm$ 300	KW40-48S5-12	K	\$118.00
		5/ $\pm$ 15	6200/ $\pm$ 300	KW40-48S5-15	K	\$118.00
		+ 5/-5/+ 12	7000/300/300	KW40-48S12-5	K	\$118.00

CASE K

Bottom View:
All Dimensions in mm (inches).



Pin Connections			
Pin No.	Pin Function		
	Single	Dual	Triple*
1	+ Input	+ Input	+ Input
2	- Input	- Input	- Input
3	+ Sense/Trim Down	- Output V2	+ Output (V2)
4	Output Trim	Com2	Com2
5	- Sense/Trim Up	NC	- Output (V3)
6	+ Output	+ Output V1	+ 5 Vdc
7	- Output	Com1	Com1
8	Remote On/Off	Remote On/Off	Remote On/Off

* For ± 5 Vdc/12Vdc Triple Voltage Units
V2 = -5Vdc, V3 = +12Vdc