

# Regulated DC/DC Converter 25Watt

## 2:1 Input Range KW25 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:  $-25^{\circ}\text{C}$  to  $+71^{\circ}\text{C}$   
 Storage Temperature Range:  $-50^{\circ}\text{C}$  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  $25^{\circ}\text{C}$  under full load and nominal input voltage unless otherwise specified.

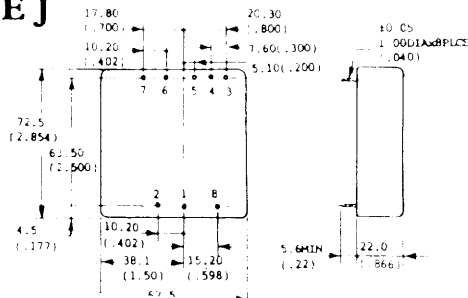


## 25W DC/DC CONVERTER

	INPUT VOLTAGE	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	MODEL NO.	CASE	PRICE 1-9 QTY.
<b>SINGLE OUTPUT</b>	12 VDC (9-18)	5	5000	KW25-12S5	J	\$99.00
		12	2100	KW25-12S12	J	\$99.00
		15	1700	KW25-12S15	J	\$99.00
	24 VDC (18-36)	5	5000	KW25-24S5	J	\$99.00
		12	2100	KW25-24S12	J	\$99.00
		15	1700	KW25-24S15	J	\$99.00
	48 VDC (36-72)	5	5000	KW25-48S5	J	\$99.00
		12	2100	KW25-48S12	J	\$99.00
		15	1700	KW25-48S15	J	\$99.00
<b>DUAL OUTPUT</b>	12 VDC (9-18)	$\pm 5$	$\pm 2500$	KW25-12-5	J	\$109.00
		$\pm 12$	$\pm 1250$	KW30-12-12	J	\$112.00
		$\pm 15$	$\pm 1000$	KW30-12-15	J	\$112.00
	24 VDC (18-36)	$\pm 5$	$\pm 2500$	KW25-24-5	J	\$109.00
		$\pm 12$	$\pm 1250$	KW30-24-12	J	\$112.00
		$\pm 15$	$\pm 1000$	KW30-24-15	J	\$112.00
	48 VDC (36-72)	$\pm 5$	$\pm 2500$	KW25-48-5	J	\$109.00
		$\pm 12$	$\pm 1250$	KW30-48-12	J	\$112.00
		$\pm 15$	$\pm 1000$	KW30-48-15	J	\$112.00
<b>TRIPLE OUTPUT</b>	12 VDC (9-18)	$5 / \pm 12$	$4000 / \pm 250$	KW25-12S5-12	J	\$120.00
		$5 / \pm 15$	$3500 / \pm 300$	KW25-12S5-15	J	\$120.00
		$12 / + 5 / - 5$	$300 / + 4000 / - 300$	KW25-12S12-5	J	\$120.00
	24 VDC (18-36)	$5 / \pm 12$	$4000 / \pm 250$	KW25-24S5-12	J	\$120.00
		$5 / \pm 15$	$3500 / \pm 300$	KW25-24S5-15	J	\$120.00
		$12 / + 5 / - 5$	$300 / + 4000 / - 300$	KW25-24S12-5	J	\$120.00
	48 VDC (36-72)	$5 / \pm 12$	$4000 / \pm 250$	KW25-48S5-12	J	\$120.00
		$5 / \pm 15$	$3500 / \pm 300$	KW25-48S5-15	J	\$120.00
		$12 / + 5 / - 5$	$300 / + 4000 / - 300$	KW25-48S12-5	J	\$120.00

Bottom View:  
 All Dimensions in mm (inches).

### CASE J



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