



25 WATT SINGLE/DUAL/TRIPLE 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
- Epoxy Encapsulated

KW25 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.....	±1.0%
Line Regulation	±0.1%
Load Regulation.....	±0.5%
Ripple Noise (20 MHz BW).....	50mV p-p max.
Temperature Coefficient (at FL).....	±0.02%/°C
Transient Response, 25% load step.....	<250µs

GENERAL

Efficiency.....	86% max.@FL
Isolation Voltage.....	500 Vdc min.
.....	Up to 3000 Vdc min. Optional
Isolation Resistance.....	1000M Ohms
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
.....	with Non-Conductive Metal Base
Dimensions.....	2.85" x 2.66" x 0.87"
.....	72.5 x 67.5 x 22.0mm

Selection Guide

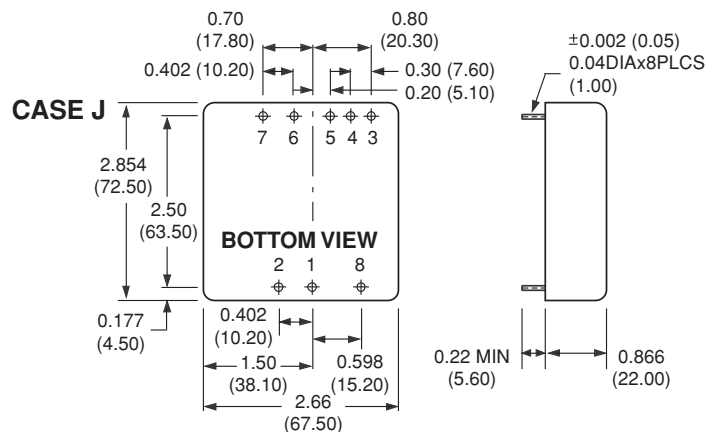
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	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Model Number	Case
SINGLE OUTPUT VOLTAGE	12 (9-18)	5	5000	KW25-12S5	J
		12	2100	KW25-12S12	J
		15	1700	KW25-12S15	J
	24 (18-36)	5	5000	KW25-24S5	J
		12	2100	KW25-24S12	J
		15	1700	KW25-24S15	J
	48 (36-72)	5	5000	KW25-48S5	J
		12	2100	KW25-48S12	J
		15	1700	KW25-48S15	J
DUAL OUTPUTS	12 (9-18)	±5	±2500	KW25-12-5	J
		±12	±1250	KW30-12-12	J
		±15	±1000	KW30-12-15	J
	24 (18-36)	±5	±2500	KW25-24-5	J
		±12	±1250	KW30-24-12	J
		±15	±1000	KW30-24-15	J
	48 (36-72)	±5	±2500	KW25-48-5	J
		±12	±1250	KW30-48-12	J
		±15	±1000	KW30-48-15	J
TRIPLE OUTPUTS	12 (9-18)	5 / ±12	4000 / ±250	KW25-12S5-12	J
		5 / ±15	3500 / ±300	KW25-12S5-15	J
		+5 / -5 / 12	+4000 / -300 / 300	KW25-12S12-5	J
	24 (18-36)	5 / ±12	4000 / ±250	KW25-24S5-12	J
		5 / ±15	3500 / ±300	KW25-24S5-15	J
		+5 / -5 / 12	+4000 / -300 / 300	KW25-24S12-5	J
	48 (36-72)	5 / ±12	4000 / ±250	KW25-48S5-12	J
		5 / ±15	3500 / ±300	KW25-48S5-15	J
		+5 / -5 / 12	+4000 / -300 / 300	KW25-48S12-5	J

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



All Dimensions are in inches (mm)



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