



60 WATT SINGLE/DUAL/TRIPLE OUTPUT

Regulated, 2:1 Input Range DC/DC Converters



FEATURES

- **500 Vdc Min. Input/Output Isolation (3000Vdc Available)**
- **Efficiency to 86% @ FL**
- **100KHz Min. Switching Frequency**
- **Short Circuit Protection**
- **6-Sided Shielding Available**
- **Compact Size**
- **Epoxy Encapsulated**

KW60 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.....	5.51" x 3.47" x 1.36"
	(140.0 x 88.0 x 34.7 mm)

Selection Guide

(Continued)

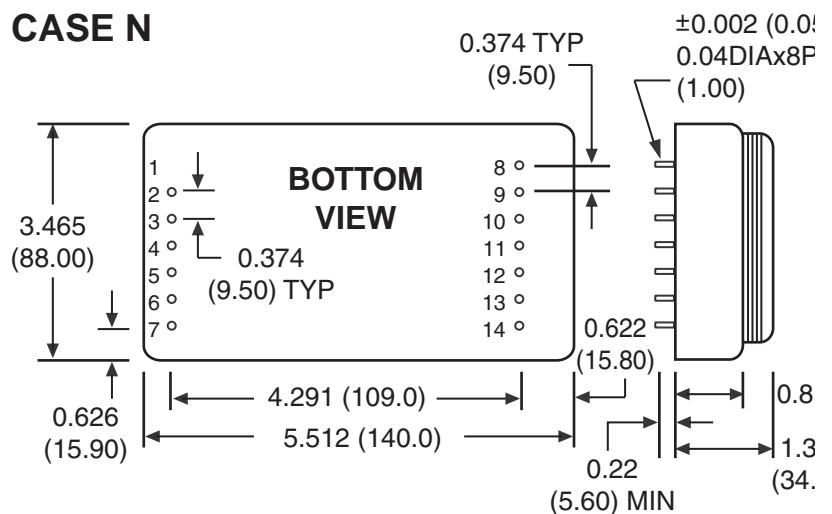
	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Model Number	Case
SINGLE OUTPUT VOLTAGE	12 (9-18)	5	12000	KW60-12S5	N
		12	5000	KW60-12S12	N
		15	4000	KW60-12S15	N
	24 (18-36)	5	12000	KW60-24S5	N
		12	5000	KW60-24S12	N
		15	4000	KW60-24S15	N
	48 (36-72)	5	12000	KW60-48S5	N
		12	5000	KW60-48S12	N
		15	4000	KW60-48S15	N
DUAL OUTPUTS	12 (9-18)	±5	±6000	KW60-12-5	N
		±12	±2500	KW60-12-12	N
		±15	±2000	KW60-12-15	N
	24 (18-36)	±5	±6000	KW60-24-5	N
		±12	±2500	KW60-24-12	N
		±15	±2000	KW60-24-15	N
	48 (36-72)	±5	±6000	KW60-48-5	N
		±12	±2500	KW60-48-12	N
		±15	±2000	KW60-48-15	N
TRIPLE OUTPUTS	12 (9-18)	5 / +12 / -12	6000 / 2000 / 500	KW60-12S5-12	N
		5 / +15 / -15	6000 / 1500 / 500	KW60-12S5-15	N
		±5 / 12	±5500 / 500	KW60-12S12-5	N
	24 (18-36)	5 / +12 / -12	6000 / 2000 / 500	KW60-24S5-12	N
		5 / +15 / -15	6000 / 1500 / 500	KW60-24S5-15	N
		±5 / 12	±5500 / 500	KW60-24S12-5	N
	48 (36-72)	5 / +12 / -12	6000 / 2000 / 500	KW60-48S5-12	N
		5 / +15 / -15	6000 / 1500 / 500	KW60-48S5-15	N
		±5 / 12	±5500 / 500	KW60-48S12-5	N

Mechanical Specifications

I/O Connections			
Pin	SINGLE	DUAL	TRIPLE *
1	No Pin	No Pin	No Pin
2	-Vin	-Vin	-Vin
3	-Vin	-Vin	-Vin
4	+Vin	+Vin	+Vin
5	+Vin	+Vin	+Vin
6	On/Off	On/Off	On/Off
7	Case	Case	Case
8	-Vout	On	-Sense
9	-Vout	Common	Com1
10	+Vout	+Vout	+5Vdc
11	+Vout	+Vout	+Sense
12	-Sense	Common	+Vout V2
13	Trim	-Vout	Com2
14	+Sense	-Vout	-Vout V3

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

CASE N



All Dimensions are in inches (mm)



POLYTRON DEVICES, Inc.

P.O. Box 398, Paterson, New Jersey 07544 U.S.A.
Tel: (973)345-5885 Fax: (973)345-1264 • Email: sales@polytrondevices.com • www.polytrondevices.com