



25-30 WATT SINGLE/DUAL/TRIPLE OUTPUT

Regulated, 4:1 Input Range DC/DC Converters



FEATURES

- Wide Input Range
- Industry Standard Package & Pinout
- Efficiency to 84% @ FL
- 500 Vdc Input/ Output Isolation
- On/Off Control
- Six Sided Shielding
- Output Trim

Y25/Y30Series

Specifications

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

INPUT

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

OUTPUT

Voltage Accuracy.....	±1.0% max.
Line Regulation	Case JY: ±0.02% max.
.....	Case JI: Single ±0.05% max.
.....	Dual ±1.00% max.
Load Regulation.....	Case JY: Single ±1.0% max.
.....	Dual ±2.0% max.
.....	Case JI: Single ±0.5% max.
.....	Dual ±2.0% max.
Ripple Noise (20 MHz BW).....	0.5-1.0% p-p max.
Temperature Coefficient (at FL).....	±0.02%/°C max.

REMOTE ON/OFF CONTROL

On Control.....	4.8V min. or Open
Off Control.....	<0.8V max. or Short

GENERAL

Efficiency.....	Case JY: 82% typical
.....	Case JI: 84% typical
Isolation Voltage.....	500 Vdc min.
Isolation Resistance.....	1000MOhms
Switching Frequency.....	100KHz
Protection.....	Over Voltage
.....	Fold Back Short Circuit Protection

ENVIRONMENTAL

Operating Temperature Range.....	-25 to +71°C
Storage Temperature Range.....	-55 to +105°C
Cooling.....	Free Air Convection
EMI/RFI.....	Six Sided Continuous Metal Shield

PHYSICAL

CaseMaterial.....	Black Coated Copper w/ Non-Conductive Metal Base
Weight Case JY:.....	10 oz. (280 grams)
Case JI:.....	5 oz. (156 grams)
Dimensions Case JY:.....	3.00" x 2.60" x 0.82"
.....	76.2 x 66.04 x 20.83 (mm)
Case JI:.....	3.00" x 2.60" x 0.45"
.....	76.2 x 66.04 x 11.43 (mm)

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Selection Guide

(Continued)

	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Model Number	Case	
SINGLE OUTPUT VOLTAGE	12 (9-36)	5	5000	Y25-24S5	JY	
		5	5000	Y25-24S5-JI	JI	
		12	2500	Y25-24S12	JY	
		12	2500	Y25-24S12-JI	JI	
		15	2000	Y25-24S15	JY	
		15	2000	Y25-24S15-JI	JI	
SINGLE OUTPUT VOLTAGE	48 (18-72)	5	5000	Y25-48S5	JY	
		5	5000	Y25-48S5-JI	JI	
		12	2500	Y25-48S12	JY	
		12	2500	Y25-48S12-JI	JI	
		15	2000	Y25-48S15	JY	
		15	2000	Y25-48S15-JI	JI	
DUAL OUTPUTS	12 (9-36)	±12	±1250	Y25-24-12	JY	
		±12	±1250	Y25-24-12-JI	JI	
		±15	±1000	Y25-24-15	JY	
		±15	±1000	Y25-24-15-JI	JI	
	48 (18-72)	±12	±1250	Y25-48-12	JY	
		±12	±1250	Y25-48-12-JI	JI	
		±15	±1000	Y25-48-15	JY	
		±15	±1000	Y25-48-15-JI	JI	
TRIPLE OUTPUTS	12 (9-36)	5 / ±12	3000 / ±600	Y30-24S5-12	JY	
		5 / ±12	3000 / ±600	Y30-24S5-12-JI	JI	
		5 / ±15	3000 / ±500	Y30-24S5-15	JY	
		5 / ±15	3000 / ±500	Y30-24S5-15-JI	JI	
		+5 / -5 / 12	+3000 / -1000 / 600	Y30-24S12-5	JY	
		+5 / -5 / 12	+3000 / -1000 / 600	Y30-24S12-5-JI	JI	
	48 (18-72)	5 / ±12	3000 / ±600	Y30-48S5-12	JY	
		5 / ±12	3000 / ±600	Y30-48S5-12-JI	JI	
		5 / ±15	3000 / ±500	Y30-48S5-15	JY	
		5 / ±15	3000 / ±500	Y30-48S5-15-JI	JI	
	+5 / -5 / 12	+3000 / -1000 / 600	Y30-48S12-5	JY		
	+5 / -5 / 12	+3000 / -1000 / 600	Y30-48S12-5-JI	JI		



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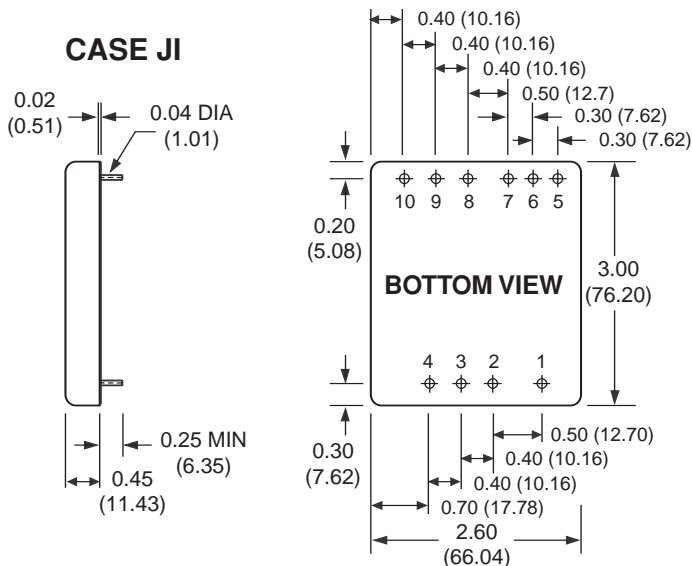
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Mechanical Specifications

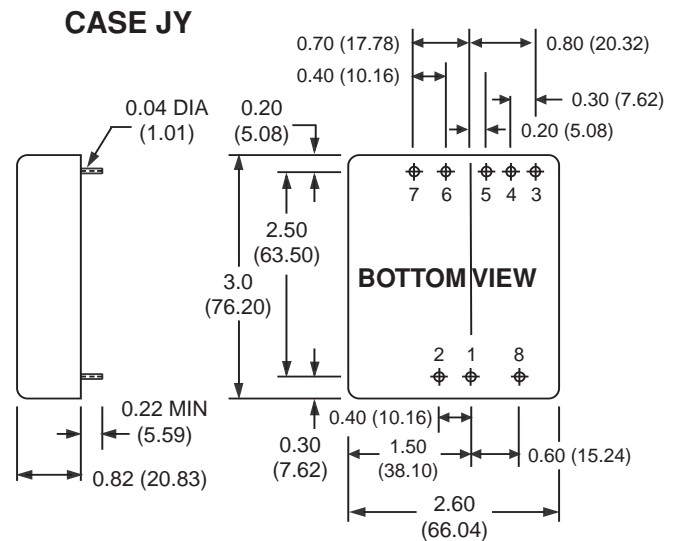
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I/O Connections			
Pin	SINGLE	DUAL	TRIPLE
1	On/Off	On/Off	Pin
2	+Vin	+Vin	+Vin
3	-Vin	-Vin	-Vin
4	No Pin	No Pin	No Pin
5	No Pin	+Vout	+Vout
6	Trim	Common	Common
7	No Pin	-Vout	-Vout
8	+Vout	Trim	+5V
9	-Vout	No Pin	No Pin
10	No Pin	No Pin	No Pin

I/O Connections			
Pin	SINGLE	DUAL	TRIPLE
1	+Vin	+Vin	+Vin
2	-Vin	-Vin	-Vin
3	No Pin	+Vout	+Vout
4	Trim	Common	Common
5	No Pin	-Vout	-Vout
6	+Vout	No Pin	+5V
7	-Vout	No Pin	No Pin
8	On/Off	On/Off	On/Off



All Dimensions are in inches (mm)



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