



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) |

Selection Guide

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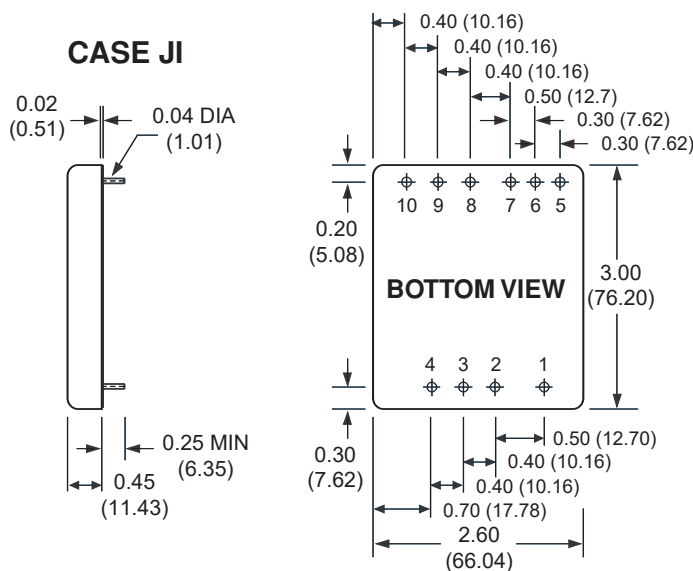
| | Input Voltage Nominal (Range) (Vdc) | Output Voltage (Vdc) | Output Current (mA) | Model Number | Case | |
|-----------------------|---|----------------------------|------------------------|----------------|------|--|
| SINGLE OUTPUT VOLTAGE | 12 (9-36) | 5 | 5000 | Y25-24S5 | JY | |
| | | 5 | 5000 | 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 | |
| | 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 | |

Mechanical Specifications

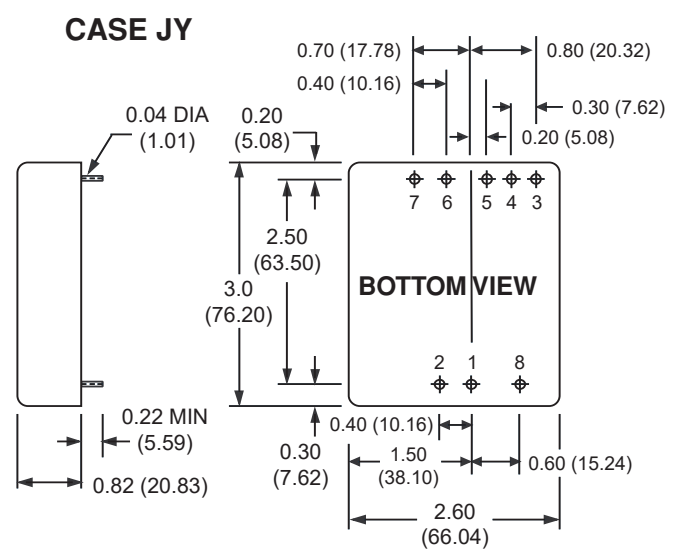
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| I/O Connections | | | |
|-----------------|--------|--------|--------|
| Pin | SINGLE | DUAL | TRIPLE |
| 1 | On/Off | On/Off | Pin |
| 2 | +Vin | +Vin | +Vin |
| 3 | -Vin | -Vin | -Vin |
| 4 | No Pin | No Pin | No Pin |
| 5 | No Pin | +Vout | +Vout |
| 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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