

40-60W, 2 x 4" AC-DC Power Supplies

Features

- ◆ Single Output
- ◆ Wide Range AC Input
- ◆ Low 1.07" profile
- ◆ Industry Standard Footprint
- ◆ Global Safety Agency Compliance
- ◆ Up to 88% efficiency



Key Market Segments & Applications



| Specifications | | | |
|-------------------------------|-----|--|--------|
| Model | | ZPSA40 | ZPSA60 |
| Input Voltage range | - | 90 - 264VAC (47 - 63Hz) or 120 - 370VDC* | |
| Inrush Current (115 / 230VAC) | A | 25 / 50 | |
| Input Current | A | < 1.2A | < 1.4A |
| Leakage Current | mA | 0.8mA maximum (264VAC, 60Hz) | |
| Temperature Coefficient | - | ±0.05%/°C | |
| Voltage Accuracy | % | ±1% | |
| Minimum Load | - | None | |
| Load Regulation | % | ±1% | |
| Line Regulation | % | ±0.5% | |
| Ripple & Noise | mV | 1% or 50mV whichever is greater | |
| Short Circuit Protection | - | Continuous - hiccup mode | |
| Overvoltage Protection | V | Typically 110-130% of nominal | |
| Hold Up Time (Typ) | ms | 8ms at 115VAC input | |
| LED Indicator | - | Green LED = OK | |
| Operating Temperature | °C | 0 to +70°C derate according to charts on page 2 | |
| Storage Temperature | °C | -20 to +85°C | |
| Humidity (non condensing) | - | 10 - 95% RH | |
| Cooling | - | Convection | |
| Withstand Voltage | - | Input to Ground 1.5kVAC, Input to Output 3kVAC, Output to Ground 500VAC for 1 min. | |
| Isolation Resistance | - | >100M at 25C & 70%RH, Output to Ground 500VDC | |
| Vibration (non operating) | - | -23.52m/s ² (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour) | |
| Shock | - | < 196.1 m/s ² (20G) | |
| Safety Agency Certification | - | UL60950-1, CSA60950-1, EN60950-1, CE Mark | |
| Conducted & Radiated EMI | - | EN55022-B, FCC Class B | |
| Immunity | - | EN61000-4-2, -3, -4, -5, -6, -8, -11 | |
| Weight (Typ) | g | 130 | |
| Size (WxLxH) | in | 2 x 4 x 1.07 (including underside components) | |
| Warranty | yrs | Two Years | |

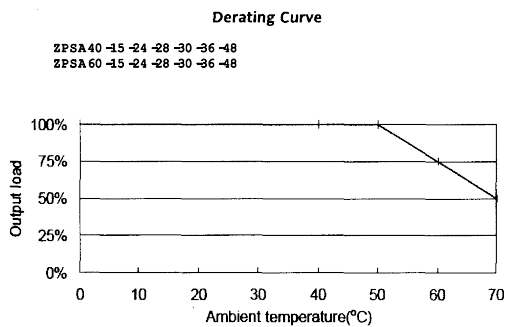
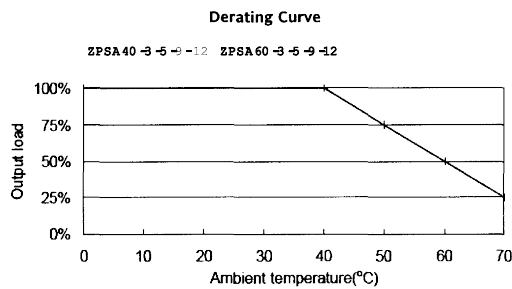
*Safety certified for 47-63Hz input only

Model Selector

| Model | Output (V) | Adjustment Range (V) | Maximum Output (A) | Peak Load (A)(4) | Output Power (W) | Efficiency (%) |
|------------|------------|----------------------|--------------------|------------------|------------------|----------------|
| ZPSA40-3R3 | 3.3 | - | 6.0 | 7.2 | 20 | 74 |
| ZPSA60-3R3 | 3.3 | - | 8.0 | 8.5 | 26 | 74 |
| ZPSA40-5 | 5 | - | 6.0 | 7.2 | 30 | 79 |
| ZPSA60-5 | 5 | - | 8.0 | 9.0 | 40 | 79 |
| ZPSA40-9 | 9 | - | 4.45 | 5.34 | 40 | 83 |
| ZPSA60-9 | 9 | - | 6.67 | 8.0 | 60 | 83 |
| ZPSA40-12 | 12 | - | 3.34 | 4.0 | 40 | 85 |
| ZPSA60-12 | 12 | - | 5.0 | 6.0 | 60 | 85 |
| ZPSA40-15 | 15 | - | 2.67 | 3.2 | 40 | 85 |
| ZPSA60-15 | 15 | - | 4.0 | 4.8 | 60 | 85 |
| ZPSA40-24 | 24 | - | 1.67 | 2.0 | 40 | 86 |
| ZPSA60-24 | 24 | - | 2.5 | 3.0 | 60 | 86 |
| ZPSA40-28 | 28 | - | 1.43 | 1.7 | 40 | 86 |
| ZPSA60-28 | 28 | - | 2.14 | 2.6 | 60 | 86 |
| ZPSA40-30 | 30 | - | 1.33 | 1.6 | 40 | 86 |
| ZPSA60-30 | 30 | - | 2.0 | 2.4 | 60 | 86 |
| ZPSA40-36 | 36 | - | 1.11 | 1.33 | 40 | 87 |
| ZPSA60-36 | 36 | - | 1.67 | 2.0 | 60 | 86 |
| ZPSA40-48 | 48 | - | 0.834 | 1.0 | 40 | 87 |
| ZPSA60-48 | 48 | - | 1.25 | 1.5 | 60 | 87 |

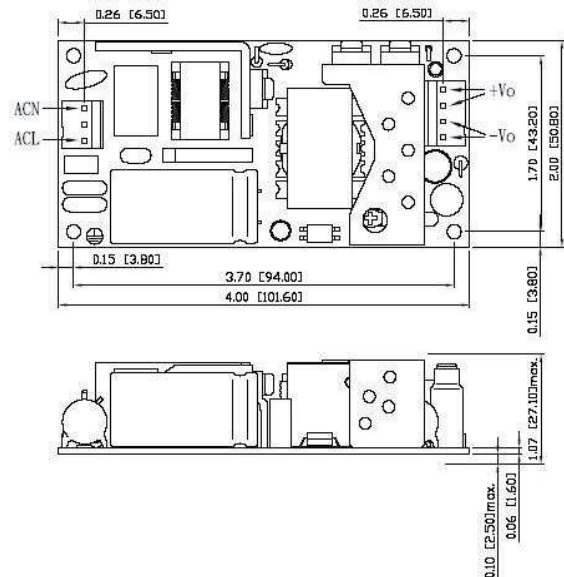
(4) Average not to exceed max power, <30s, 10% duty cycle

Derating Curve



Outline Drawings

All Dimensions are in inches[mm]
Tolerances : XX±.02[.XX±.5] unless otherwise noted



Other Industrial Products

| | |
|----------|-----------------------------------|
| SC40/60 | 40 to 80W, 3x5", 1 - 3 outputs |
| NV175 | 175W, 3x5", 1-5 outputs |
| ZWS | 5 to 240W, single output |
| KPSA | 5 to 15W, pcb mount |
| ZPD, ZPT | 40W, 2x4" dual and triple outputs |

Options

| Suffix | Description |
|--------|------------------|
| Blank | Molex connectors |
| /P | PCB mount pins |

For Additional Information, please visit
<https://product.tdk.com/info/en/products/power/index.html>



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