

JWS-P Series

Single Output Peak Power Industrial Power Supplies



- ◆ 5 Year Warranty
- ◆ Power factor Corrected
- ◆ Approved to VDE0160 Machinery Directive
- ◆ Universal Input (85 - 265VAC)
- ◆ 200% Peak Power Capability for 10 seconds

RoHS

Key Market Segments & Applications

| | |
|--------------------|---|
| Factory Automation | Process Control, NC-Machining, Automotive, Packaging Equipment, Materials Handling, Chemical Processing, Robots |
| Test & Measurement | Burn-in & Test, Automated Test, Instrumentation, Measurement, Detection |

JWS Features and Benefits

| Feature | Benefit |
|--------------------------|---|
| ◆ VDE0160 Approved | ◆ No additional Approvals Needed |
| ◆ 5 Year Warranty | ◆ Lower Cost of Ownership |
| ◆ Power Factor Corrected | ◆ Supports Global Use |
| ◆ 200% Peak Power | ◆ Able to support motor start up currents |

Specifications

| ITEMS | MODEL | JWS70P | JWS120P | JWS240P | JWS480P |
|-----------------------------|-------|---|-----------|---|-----------|
| Input Voltage range | - | 85 - 265VAC (47 - 63Hz) or 120 - 330VDC | | | |
| Inrush Current (100/200VAC) | A | 14 / 28 | 25 / 50 | 20 / 40 | |
| Input Current (Typ) | A | 1.0 / 0.5 | 1.6 / 0.8 | 3.2 / 1.6 | 6.4 / 3.2 |
| Power Factor | | Meets EN61000-3-2 | | | |
| Temperature Coefficient | | <0.02%/°C | | | |
| Overcurrent Protection | - | >102% | | | |
| Overvoltage Protection | V | Yes | | | |
| Hold Up Time (Typ) | ms | 20 | | | |
| Leakage Current (max) | mA | 0.75 | | | |
| Remote Sense | - | Yes | | | |
| Remote On / Off | - | No | | Yes | |
| AC Power Fail | - | No | | Yes | |
| Operating Temperature | - | -10°C~+60°C, derate linearly to 60% load from 50°C~60°C | | -10°C~+65°C, derate linearly to 55% load from 50°C~65°C | |
| Storage Temperature | - | -30 to +85°C | | | |
| Operating Humidity (*1) | - | 30 - 90% RH | | | |
| Storage Humidity (*1) | - | 10 - 95% RH | | | |
| Cooling | - | Convection | | Internal Fan | |
| Withstand Voltage | - | Input to Ground 2kVAC (20mA), Input to Output 3kVAC (20mA), Output to Ground 500VAC (100mA) for 1 min | | | |
| Isolation Resistance | - | >100M at 25°C & 70%RH, Output to Ground 500VDC | | | |
| Vibration (non operating) | - | 10 - 55Hz (1 minute sweep), 19.6m/s ² constant X, Y, Z 1 hour | | | |
| Shock | - | < 196.1 m/s ² | | | |
| Safety Agency Approvals | - | UL60950-1, CSA C22.2 No. 60950-1, EN60950-1, VDE0160, CE Mark, Built to meet DENTORI | | | |
| Conducted & Radiated EMI | - | EN55011 / EN55022-B, FCC Class B, VCCI-B | | | |
| Weight (Typ) | g | 700 | 900 | 1900 | 3000 |
| Recommended EMI Filter | - | MAW1202-22 | | MAW1205-22 | MB1210 |
| Size (WxHxD) | mm | | | | |
| Warranty | - | Five Years | | | |

*1 non condensing

Model Selector

| Model | Voltage | Adjust Range | Average Current (A) | Peak Current (A) *1 | Load Reg (mV) | Line Reg (mV) | Ripple Noise (mV) | Efficiency (typ) % |
|------------|---------|--------------|---------------------|---------------------|---------------|---------------|-------------------|--------------------|
| JWS70P-24 | 24V | 21.6 - 26.4 | 3 | 6 | 192 | 96 | 240 | 80 |
| JWS120P-24 | 24V | 21.6 - 26.4 | 5 | 10 | 192 | 96 | 240 | 80 |
| JWS240P-24 | 24V | 21.6 - 28.8 | 10 | 20 | 192 | 96 | 240 | 80 |
| JWS480P-24 | 24V | 21.6 - 28.8 | 20 | 40 | 192 | 96 | 240 | 80 |
| JWS240P-36 | 36V | 32.4 - 43.2 | 6.65 | 13.3 | 288 | 144 | 360 | 80 |
| JWS70P-48 | 48V | 43.2 - 52.8 | 1.5 | 3 | 384 | 192 | 480 | 80 |
| JWS120P-48 | 48V | 43.2 - 52.8 | 2.5 | 5 | 384 | 192 | 480 | 80 |
| JWS240P-48 | 48V | 43.2 - 52.8 | 5 | 10 | 384 | 192 | 480 | 80 |
| JWS480P-48 | 48V | 43.2 - 52.8 | 10 | 20 | 384 | 192 | 480 | 80 |

Note *1: Peak current for up to 10 seconds with a 50% duty cycle

Dimensions Table

| | Height (H) | Width (W) | Depth (D) |
|---------|------------|-----------|-----------|
| JWS70P | 1.97" | 3.62" | 7.40" |
| JWS120P | 2.56" | 3.62" | 7.80" |
| JWS240P | 3.62" | 4.72" | 7.48" |
| JWS480P | 3.62" | 6.29" | 7.90" |

Other Lambda Industrial Products

| | |
|-------------|--------------------------------------|
| HWS | 15 to 1500W Single output |
| JWS & JWT | 50W to 600W Single and triple output |
| JFS | 500W to 2000W Single output |
| DLP/DSP/DPP | 10 to 480W DIN Rail Mount |

For Additional Information, please visit
us.tdk-lambda.com/lp/products/jws-series.htm

JWS Outline Drawing

