

Single Output Industrial Power Supplies

Features

- ◆ 5 Year Warranty
- ◆ Power factor Corrected
- ◆ Approved to VDE0160 Machinery Directive
- ◆ Universal Input (85 - 265VAC)
- ◆ Level B EMI

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



Not recommended for new designs - see HWS series

| Specifications | | JWS50 | JWS75 | JWS100 | JWS150 | JWS300 | JWS600 | |
|-------------------------------|----|---|-------|---------|------------|--------------------------|--------|--|
| Input Voltage range | - | 85 - 265VAC (47 - 63Hz) or 120 - 330VDC | | | | | | |
| Inrush Current (100 / 200VAC) | A | 14 / 28 | | 25 / 50 | | 20 / 40 | | |
| Power Factor | - | Meets EN61000-3-2 | | | | | | |
| Temperature Coefficient | - | <0.02%/°C | | | | | | |
| Overcurrent Protection | - | >105% | | | | | | |
| Overvoltage Protection | V | Yes | | | | | | |
| Hold Up Time (Typ) | ms | 20 | | | | | | |
| Leakage Current (max) | mA | 0.75 | | | | | | |
| Remote Sense | - | No | | | Yes | | | |
| Remote On / Off | - | Specify as Option /R | | | | Standard | | |
| AC Power Fail | - | Not Available | | | | Standard | | |
| Parallel Connection | - | Not Available | | | | Avail. JWS300 & 600 only | | |
| Operating Temp. (open frame) | - | -10°C~+60°C, derate linearly to 60% load from 50°C~60°C | | | | | | |
| Operating Temp. (with cover) | - | -10°C~+50°C, derate linearly to 60% load from 40°C~50°C (JWS50-150) | | | | | | |
| | - | -10°C~+65°C, derate linearly to 55% load from 50°C~65°C (JWS300-600) | | | | | | |
| Storage Temperature | - | -30 to +85°C | | | | | | |
| Operating Humidity (1) | - | 30 - 90% RH | | | | 10 - 90% RH | | |
| Storage Humidity (1) | - | 10 - 95% RH | | | | | | |
| Cooling | - | JWS50 - JWS150 Convection, JWS300 & JWS600 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 | | | | | | |
| Recommended EMI Filter | - | MAW1202-22 | | | MAW1203-22 | MB1210 | MB1216 | |
| Weight (Typ) | g | 350 | 450 | 650 | 850 | 1900 | 3000 | |
| Size (WxHxD) | mm | See side 2 | | | | | | |
| Warranty | - | Five Years | | | | | | |

(1) Non condensing

Model Derating*

| Model | Voltage | Adjust Range | Max Curr. | Load Reg mV | Line Reg mV | Ripple Noise | Eff. (typ)% |
|-------------|---------|--------------|-----------|-------------|-------------|--------------|-------------|
| JWS300-2 | 2.0V | 1.8 - 2.4 | 60 | 20 | 20 | 120 | 60 |
| JWS600-2 | 2.0V | 1.8 - 2.4 | 120 | 30 | 20 | 120 | 61 |
| JWS50-3/A | 3.3V | 2.85 - 3.63 | 10 | 40 | 20 | 120 | 65 |
| JWS75-3/A | 3.3V | 2.85 - 3.63 | 15 | 40 | 20 | 120 | 67 |
| JWS100-3/A | 3.3V | 2.85 - 3.63 | 20 | 40 | 20 | 120 | 67 |
| JWS150-3/A | 3.3V | 2.85 - 3.63 | 30 | 40 | 20 | 120 | 67 |
| JWS300-3 | 3.3V | 2.97 - 3.96 | 60 | 20 | 20 | 120 | 68 |
| JWS600-3 | 3.3V | 2.97 - 3.96 | 120 | 30 | 20 | 120 | 70 |
| JWS50-5/A | 5.0V | 4.5 - 5.5 | 10 | 40 | 20 | 120 | 74 |
| JWS75-5/A | 5.0V | 4.5 - 5.5 | 15 | 40 | 20 | 120 | 74 |
| JWS100-5/A | 5.0V | 4.5 - 5.5 | 20 | 40 | 20 | 120 | 75 |
| JWS150-5/A | 5.0V | 4.5 - 5.5 | 30 | 40 | 20 | 120 | 75 |
| JWS300-5 | 5.0V | 4.5 - 6.0 | 60 | 20 | 20 | 120 | 74 |
| JWS600-5 | 5.0V | 4.5 - 6.0 | 120 | 30 | 20 | 120 | 75 |
| JWS100-6/A | 6.0V | 5.4 - 6.6 | 16.7 | 48 | 24 | 120 | 75 |
| JWS300-6 | 6.0V | 5.4 - 7.2 | 50 | 36 | 24 | 150 | 74 |
| JWS600-6 | 6.0V | 5.4 - 7.2 | 100 | 36 | 24 | 120 | 75 |
| JWS600-8 | 8.0V | 7.2 - 9.6 | 68 | 48 | 32 | 150 | 77 |
| JWS50-9/A | 9.0V | 8.1 - 9.9 | 5.6 | 76 | 36 | 150 | 74 |
| JWS100-9/A | 9.0V | 8.1 - 9.9 | 11.2 | 72 | 36 | 150 | 75 |
| JWS300-9 | 9.0V | 8.1 - 10.8 | 34 | 54 | 36 | 150 | 76 |
| JWS600-9 | 9.0V | 8.1 - 10.8 | 68 | 54 | 36 | 150 | 77 |
| JWS50-12/A | 12.0V | 10.8 - 13.2 | 4.3 | 96 | 48 | 150 | 76 |
| JWS75-12/A | 12.0V | 10.8 - 13.2 | 6.3 | 96 | 48 | 150 | 76 |
| JWS100-12/A | 12.0V | 10.8 - 13.2 | 8.5 | 96 | 48 | 150 | 76 |
| JWS150-12/A | 12.0V | 10.8 - 13.2 | 13 | 96 | 48 | 150 | 77 |
| JWS300-12 | 12.0V | 10.8 - 14.4 | 27 | 48 | 48 | 150 | 76 |
| JWS600-12 | 12.0V | 10.8 - 14.4 | 53 | 72 | 48 | 150 | 80 |
| JWS50-15/A | 15.0V | 13.5 - 16.5 | 3.5 | 120 | 60 | 150 | 77 |
| JWS75-15/A | 15.0V | 13.5 - 16.5 | 5 | 120 | 60 | 150 | 77 |
| JWS100-15/A | 15.0V | 13.5 - 16.5 | 7 | 120 | 60 | 150 | 77 |
| JWS150-15/A | 15.0V | 13.5 - 16.5 | 10 | 120 | 60 | 150 | 78 |
| JWS300-15 | 15.0V | 13.5 - 18.0 | 22 | 60 | 60 | 150 | 77 |
| JWS600-15 | 15.0V | 13.5 - 18.0 | 43 | 90 | 60 | 150 | 81 |
| JWS50-24/A | 24.0V | 21.6 - 26.4 | 2.2 | 150 | 96 | 150 | 79 |
| JWS75-24/A | 24.0V | 21.6 - 26.4 | 3.2 | 150 | 96 | 150 | 79 |
| JWS100-24/A | 24.0V | 21.6 - 26.4 | 4.5 | 150 | 96 | 150 | 79 |
| JWS150-24/A | 24.0V | 21.6 - 26.4 | 6.5 | 150 | 96 | 150 | 80 |
| JWS300-24 | 24.0V | 21.6 - 28.8 | 14 | 144 | 96 | 150 | 80 |
| JWS600-24 | 24.0V | 21.6 - 28.8 | 27 | 144 | 96 | 150 | 82 |
| JWS50-28/A | 28.0V | 25.2 - 30.8 | 2 | 160 | 112 | 150 | 79 |
| JWS100-28/A | 28.0V | 25.2 - 30.8 | 3.6 | 160 | 112 | 150 | 79 |
| JWS150-28/A | 28.0V | 25.2 - 30.8 | 5.5 | 160 | 112 | 150 | 80 |
| JWS300-28 | 28.0V | 25.2 - 33.6 | 12 | 168 | 112 | 150 | 80 |
| JWS600-28 | 28.0V | 25.2 - 33.6 | 23 | 168 | 112 | 150 | 82 |
| JWS50-48/A | 48.0V | 43.2 - 52.8 | 1.1 | 240 | 192 | 200 | 79 |
| JWS75-48/A | 48.0V | 43.2 - 52.8 | 1.6 | 240 | 192 | 200 | 79 |
| JWS100-48/A | 48.0V | 43.2 - 52.8 | 2.1 | 240 | 192 | 200 | 79 |
| JWS150-48/A | 48.0V | 43.2 - 52.8 | 3.3 | 240 | 192 | 200 | 80 |
| JWS300-48 | 48.0V | 43.2 - 52.8 | 6.5 | 288 | 192 | 350 | 80 |
| JWS600-48 | 48.0V | 43.2 - 52.8 | 13 | 288 | 192 | 350 | 83 |

JWS Outline Drawing



See website for detailed drawing.

Dimensions Table

| | Height (H) | Width (W) | Depth (D) |
|--------|------------|-----------|-----------|
| JWS50 | 1.45" | 3.35" | 6.25" |
| JWS75 | 1.65" | 3.62" | 6.88" |
| JWS100 | 1.97" | 3.62" | 7.40" |
| JWS150 | 2.56" | 3.62" | 7.80" |
| JWS300 | 3.62" | 4.72" | 7.48" |
| JWS600 | 3.62" | 6.29" | 7.90" |

Other Industrial Products

| | |
|-------------|----------------------------|
| HWS | 15W to 1800W Single output |
| LZSA | 500 to 1500W 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



Options

| Suffix | Description |
|---------|--|
| Blank | Screw terminals, no cover (JWS50 - JWS150) |
| /A* | Screw terminals, cover (JWS50 - JWS150) |
| /B | Molex terminals, no cover (JWS50 & JWS75) |
| /C | Molex terminals, cover (JWS50 & JWS75) |
| /R | Remote On / Off (JWS50 - JWS150) |
| Example | JWS50-5/RA |
| Note: | * Standard US stock item. |

Not recommended for new designs - see HWS series



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- Консультации по применению компонента;
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- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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