

## 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                |    |                                                                                                           |       |        |            |                          |        |
|-------------------------------|----|-----------------------------------------------------------------------------------------------------------|-------|--------|------------|--------------------------|--------|
| Model                         |    | 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),<br>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 <sup>2</sup> constant X, Y, Z 1 hour                                  |       |        |            |                          |        |
| Shock                         | -  | < 196.1 m/s <sup>2</sup>                                                                                  |       |        |            |                          |        |
| 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          |

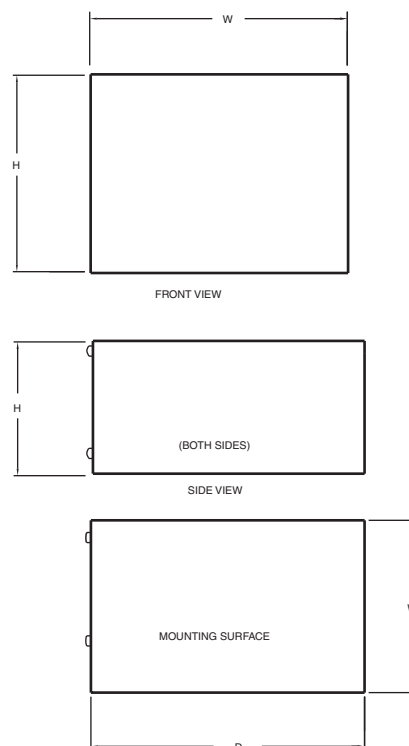
## Other Industrial Products

|             |                            |
|-------------|----------------------------|
| 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](http://us.tdk-lambda.com/lp/products/jws-series.htm)



## 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"     |

## 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**

## Данный компонент на территории Российской Федерации

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