

## 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),<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          |

## 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](http://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**



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.