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

RoHS

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)	-	-10ºC~+60ºC, derate linearly to 60% load from 50ºC~60ºC					
Operating Temp. (with cover)	-	-10ºC~+50ºC, derate linearly to 60% load from 40ºC~50ºC (JWS50-150)					
	-	-10ºC~+65ºC, derate linearly to 55% load from 50ºC~65ºC (JWS300-600)					
Storage Temperature	-	-30 to +85ºC					
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 25ºC & 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					

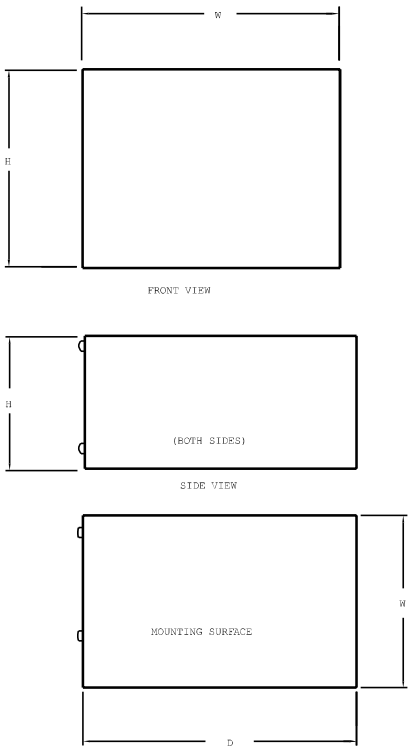
(1) Non condensing

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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
JWS100-12A	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.

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