

Single Output Industrial Power Supplies

Features

- ◆ 5 Year Warranty
- ◆ Power factor Corrected
- ◆ Approved to UL508
- ◆ Universal Input (85 - 265VAC)
- ◆ 200% Peak power capable (JWS-P models)
- ◆ Level B EMI



Key Market Segments & Applications

- ◆ Factory Automation Process Control, NC-Machining, Automotive, Packaging Equipment, Chemical Processing, Robots



Not recommended for new designs - see HWS series

Specifications								
Model		JWS50	JWS75	JWS70P JWS100	JWS120P JWS150	JWS240P JWS300	JWS480P JWS600	
Input Voltage range	-	85 - 265VAC (47 - 63Hz) or 120 - 330VDC (no DC input on JWS-P)						
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	-	Not Available					Standard	
AC Power Fail	-	Not Available					Standard	
Parallel Connection	-	Not Available					Avail. JWS300 & 600 only	
Operating Temperature	-	See derating table						
Storage Temperature	°C	-30 to +85°C						
Operating Humidity (1)	-	30 - 90% RH (10 - 90% RH on JWS300 & 600 only)						
Storage Humidity (1)	-	10 - 95% RH						
Cooling	-	JWS50 - JWS150 Convection, JWS240 - 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 25C & 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	-	UL508						
Conducted & Radiated	EMI	EN55011 / EN55022-B, FCC Class B, VCCI-B						
Weight (Typ)	g	400	500	700	900	1900	3000	
Recommended EMI Filter	-	MAW1202-22			MAW1202-22 MAW1203-22	MAW1205-22 MB1210	MB1210 MB1216	
Size (WxHxD)	mm	See sheet 2						
Cover	-	Standard						
Warranty	-	Five Years						

(1) Non condensing

Model Selector

Model	Voltage	Adjustment Range	Max Current	Avg. Current	Peak Current	Load Reg mV	Line Reg mV	Ripple Noise mV	Efficiency (typ) %
JWS50-24/508	24V	21.6 - 26.4	2.2	-	-	150	96	150	79
JWS70P-24/508	24V	21.6 - 26.4	-	3	6	192	96	240	80
JWS75-24/508	24V	21.6 - 26.4	3.2	-	-	150	96	150	79
JWS100-24/508	24V	21.6 - 26.4	4.5	-	-	150	96	150	79
JWS120P-24/508	24V	21.6 - 26.4	-	5	10	192	96	240	80
JWS150-24/508	24V	21.6 - 26.4	6.5	-	-	150	96	150	80
JWS240P-24/508	24V	21.6 - 28.8	-	10	20	192	96	240	80
JWS300-24/508	24V	21.6 - 28.8	14	-	-	144	96	150	80
JWS480P-24/508	24V	21.6 - 28.8	-	20	40	192	96	240	80
JWS600-24/508	24V	21.6 - 28.8	27	-	-	144	96	150	82

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

Model Derating*

Model	40°C	45°C	50°C	55°C	60°C	65°C
JWS50-24/508	100%	100%	80%	60%	-	-
JWS70P-24/508	100%	100%	100%	80%	60%	-
JWS75-24/508	100%	80%	60%	-	-	-
JWS100-24/508	100%	100%	100%	60%	-	-
JWS120P-24/508	100%	100%	100%	80%	60%	-
JWS150-24/508	100%	100%	100%	60%	-	-
JWS240P-24/508	100%	100%	100%	85%	70%	55%
JWS300-24/508	100%	100%	100%	85%	70%	55%
JWS480P-24/508	100%	100%	100%	85%	70%	55%
JWS600-24/508	100%	100%	100%	85%	70%	55%

* % of full power rating at specified temperature

Dimensions Table

	Height (H)	Width (W)	Depth (D)
JWS50	1.45"	3.35"	6.25"
JWS75	1.65"	3.62"	6.88"
JWS70P, JWS100	1.97"	3.62"	7.40"
JWS120P, JWS150	2.56"	3.62"	7.80"
JWS240P, JWS300	3.62"	4.72"	7.48"
JWS480P, JWS600	3.62"	6.29"	7.90"

Other Industrial Products

HWS	15 to 1500W Single output
JWS, JWS-P & JWT	50 to 600W Single and triple output
LZSa	500 to 1500W Single output
JFS	500 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



See website for detailed drawing.

Not recommended for new designs - see HWS series

Mouser Electronics

Authorized Distributor

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[TDK-Lambda:](#)

[JWS10028/A](#) [JWS15024/A](#) [JWS480P24](#) [JWS480P24/508](#) [JWS480P48](#) [JWS5028/A](#) [JWS60024/508](#) [JWS7548](#)
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[JWS5024/C](#)