

SPECIFICATIONS

A161-01-01F

ITEMS		MODEL	JWS300 -2	JWS300 -3	JWS300 -5	JWS300 -12	JWS300 -15	JWS300 -24	JWS300 -48	
1	Nominal Output Voltage	V	2	3.3	5	12	15	24	48	
2	Maximum Output Current	A	60	60	60	27	22	14	6.5	
3	Maximum Output Power	W	120	198	300	324	330	336	312	
4	Efficiency (Typ.)	(*1) %	60	68	74	76	77	80	80	
5	Input Voltage Range	(*2) -	85 - 265VAC (47-63Hz) or 120 - 330VDC							
6	Input Current (100/200VAC)(Typ.)	(*1) A	2.1/1.1	3.0/1.5	4.4/2.2					
7	Inrush Current(Typ.)	(*3) -	20A at 100VAC, 40A at 200VAC							
8	PFHC	-	Designed to meet EN61000-3-2							
9	Power Factor (100/200VAC)(Typ.)	(*1) -	0.99/0.95							
10	Output Voltage Range	V	1.80-2.40	2.97-3.96	4.50-6.00	10.8-14.4	13.5-18.0	21.6-28.8	43.2-52.8	
11	Maximum Ripple & Noise (*4)	0 - +65°C	mV	120	120	120	150	150	150	350
		-10 - 0°C	mV	180	180	180	200	200	200	400
12	Maximum Line Regulation	(*5) mV	20	20	20	48	60	96	192	
13	Maximum Load Regulation	(*6) mV	30	30	30	72	90	144	288	
14	Temperature Coefficient	-	Less than 0.02%/°C							
15	Over Current Protection	(*7) A	63.0 -	63.0 -	63.0 -	28.4 -	23.1 -	14.7 -	6.82 -	
16	Over Voltage Protection	(*8) V	2.50-3.00	4.12-4.95	6.25-7.25	15.0-17.4	18.7-21.8	30.0-34.8	55.2-64.8	
17	Hold-up Time (Typ.)	(*9) -	20ms							
18	Leakage Current	(*10) -	0.75mA MAX, 0.2mA (Typ.) at 100VAC / 0.44mA (Typ.) at 230VAC.							
19	Remote Sensing	-	Possible							
20	Remote ON/OFF control	-	Possible							
21	Monitoring Signal	-	PF (Open Collector Output)							
22	Parallel Operation	-	Possible							
23	Series Operation	-	Possible							
24	Operating Temperature	(*11) -	-10 - +65°C (-10 - +50°C:100%, +60°C:70%, +65°C:55%)							
25	Operating Humidity	-	10 - 90%Rh (No dewdrop)							
26	Storage Temperature	-	-30 - +85°C							
27	Storage Humidity	-	10 - 95%Rh (No dewdrop)							
28	Cooling	-	Forced Air By Blower Fan							
29	Withstand Voltage	-	Input - FG:2kVAC(20mA), Input - Output:3kVAC (20mA) Output - FG:500VAC(100mA), Output-CNT:100VAC(100mA) for 1min.							
30	Isolation Resistance	-	More than 100Mohm Output - FG...500VDC More than 10Mohm Output - CNT... 100VDC at 25°C and 70%Rh							
31	Vibration	-	At no operating, 10 - 55Hz (Sweep for 1min.) 19.6m/s ² Constant, X,Y,Z 1h each.							
32	Shock (In package)	-	Less than 196.1m/s ²							
33	Safety	(*12) -	Approved by UL60950-1, CSA C22.2 No.60950 & EN60950-1. Designed to meet DENAN.							
34	Conducted Emission	-	Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB.							
35	Radiated Emission	-	Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB.							
36	Weight(Typ.)	-	1900g							
37	Size (WxHxD)	mm	120 x 92 x 190 (Refer to Outline Drawing)							

*Read instruction manual carefully, before using the power supply unit.

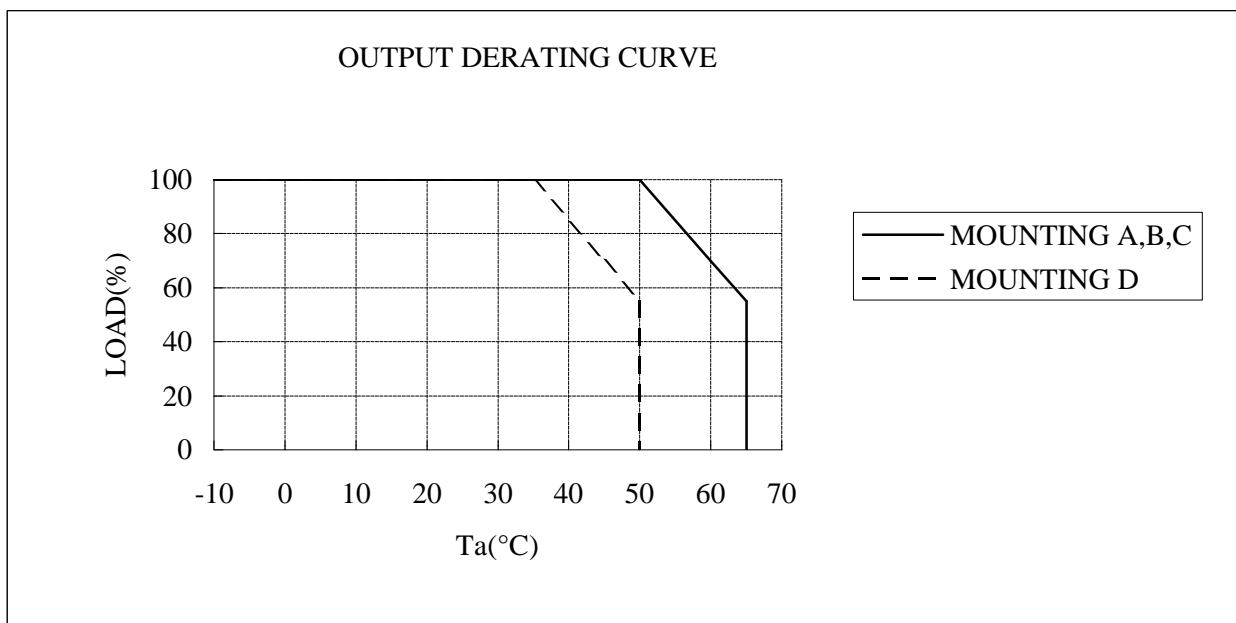
=NOTES=

- *1. At 100/200VAC, Ta=25°C and maximum output power.
- *2. For cases where conformance to various safety specs (UL, CSA, EN) are required, input voltage range will be 100-240VAC(50/60Hz).
- *3. Not applicable for the in-rush current to Noise Filter less than 0.2ms.
- *4. Measure with JEITA RC-9131 probe, Bandwidth of scope : 100MHz.
- *5. 85 - 265VAC , constant load.
- *6. No load-Full load, constant input voltage.
- *7. Constant current limit with automatic recovery.
- *8. OVP circuit will shut down output, manual reset (Line recycle).
- *9. At 100/200VAC nominal output voltage and maximum output current.
- *10. Measured by the each measuring method of UL,CSA,EN and DENAN(at 60Hz),Ta=25°C.
- *11. Ratings - Derating at standard mounting.
 - Load (%) is percent of maximum output power or maximum output current, whichever is greater.
 - As for other mountings, refer to derating curve (A161-01-02).
- *12. As for DENAN, designed to meet at 100VAC.

OUTPUT DERATING

A161-01-02

Ta(°C)	LOAD(%)			
	MOUNTING A	MOUNTING B	MOUNTING C	MOUNTING D
-10 ~+35	100	100	100	100
45	100	100	100	70
50	100	100	100	55
60	70	70	70	-
65	55	55	55	-



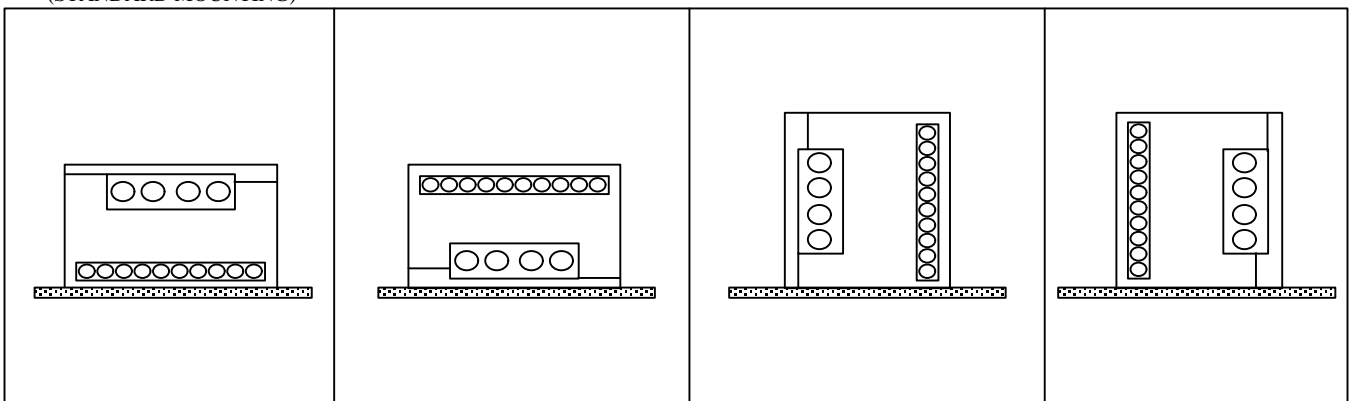
MOUNTING A

(STANDARD MOUNTING)

MOUNTING B

MOUNTING C

MOUNTING D



SPECIFICATIONS

A161-01-03D

ITEMS		MODEL	JWS300 -6	JWS300 -9	JWS300 -18	JWS300 -28	
1	Nominal Output Voltage	V	6	9	18	28	
2	Maximum Output Current	A	50	34	18	12	
3	Maximum Output Power	W	300	306	324	336	
4	Efficiency (Typ.)	(*1) %	74	76	78	80	
5	Input Voltage Range	(*2) -	85 - 265VAC (47 - 63Hz) or 120 - 330VDC				
6	Input Current (100/200VAC) (Typ.)	(*1) -	4.4 / 2.2A				
7	Inrush Current (Typ.)	(*3) -	20A at 100VAC, 40A at 200VAC				
8	PFHC	-	Designed to meet EN61000-3-2				
9	Power Factor (100/200VAC) (Typ.)	(*1) -	0.99 / 0.95				
10	Output Voltage Range	V	5.4 - 7.2	8.10 - 10.8	16.2 - 21.6	25.2 - 33.6	
11	Maximum Ripple & Noise (*4)	0 - +65°C	mV	150	150	150	150
		-10 - 0°C	mV	200	200	200	200
12	Maximum Line Regulation	(*5) mV	24	36	72	112	
13	Maximum Load Regulation	(*6) mV	36	54	114	168	
14	Temperature Coefficient	-	Less than 0.02%/°C				
15	Over Current Protection	(*7) A	52.5 -	35.7 -	18.9 -	12.6 -	
16	Over Voltage Protection	(*8) V	7.5 - 8.7	11.25 - 13.05	22.5 - 27.0	35.0 - 40.6	
17	Hold-up Time (Typ.)	(*9) -	20ms				
18	Leakage Current	(*10) -	0.75mA MAX, 0.2mA (Typ.) at 100VAC / 0.44mA (Typ.) at 230VAC.				
19	Remote Sensing	-	Possible				
20	Remote ON/OFF control	-	Possible				
21	Monitoring Signal	-	PF (Open Collector Output)				
22	Parallel Operation	-	Possible				
23	Series Operation	-	Possible				
24	Operating Temperature	(*11) -	-10 - +65°C (-10 - +50°C:100%, +60°C:70%, +65°C:55%)				
25	Operating Humidity	-	10 - 90%RH (No dewdrop)				
26	Storage Temperature	-	-30 - +85°C				
27	Storage Humidity	-	10 - 95%RH (No dewdrop)				
28	Cooling	-	Forced Air By Blower Fan				
29	Withstand Voltage	-	Input - FG:2kVAC(20mA), Input - Output:3kVAC (20mA) Output - FG:500VAC(100mA), Output-CNT:100VAC(100mA) for 1min.				
30	Isolation Resistance	-	More than 100MΩ Output - FG ... 500VDC More than 10MΩ Output - CNT ... 100VDC at 25°C and 70%RH				
31	Vibration	-	At no operating, 10 - 55Hz (Sweep for 1min.) 19.6m/s ² Constant, X,Y,Z 1h each.				
32	Shock (In package)	-	Less than 196.1m/s ²				
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35	Radiated Emission	-	Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB.				
36	Weight (Typ.)	-	1900g				
37	Size (W x H x D)	mm	120 x 92 x 190 (Refer to Outline Drawing)				

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