JWS 300

SPECIFICATIONS

A161-01-01E

	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		-	Built 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	0 ~ +65°C	mV	120	120	120	150	150	150	350
	(*4)	-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 1hour each.						
32	Shock (In package)		-	Less than 196.1m/s^2						
33	Safety	(*12)	-	Approved by UL1950, CSA950, EN60950,VDE0160. Built to meet DENTORI.						
34	Conducted Emission		-	Built to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB.						
35	Radiated Emission		-	Built to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB.						
36	Weight(Typ.)		g	1900						
37	Size (WxHxD)		mm	120 x 92 x 190 (Refer to Outline Drawing)						

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

=NOTES=

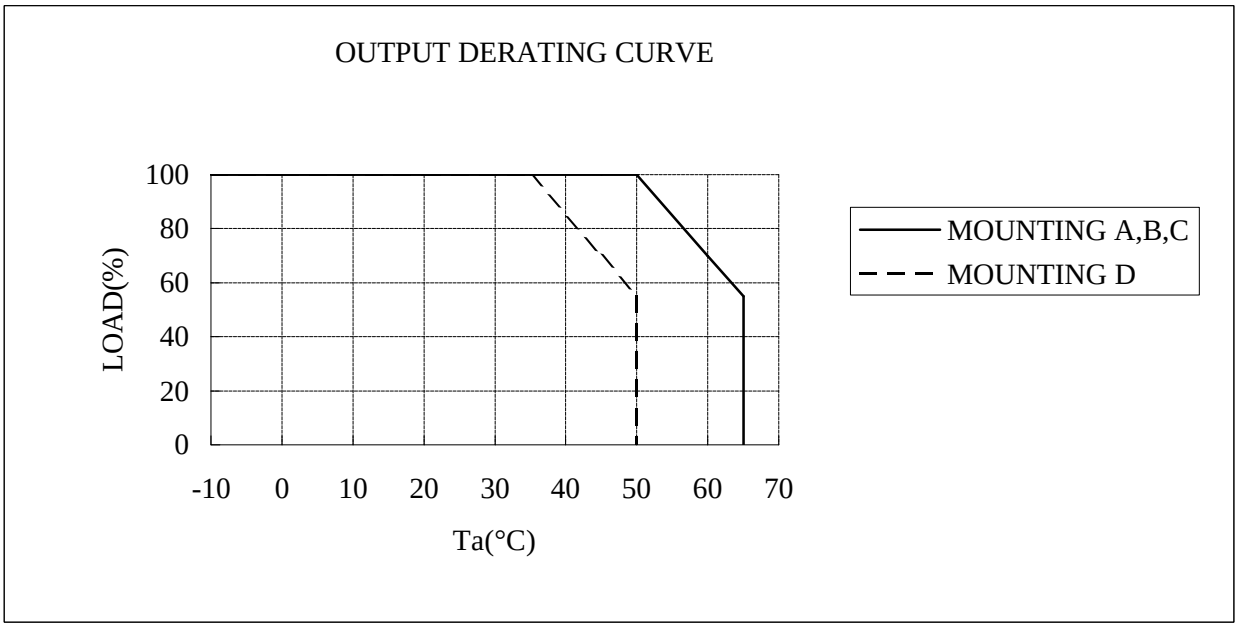
*1. At 100/200VAC, Ta=25°C and maximum output power.
*2. For cases where conformance to various safety specs (UL, CSA, EN) are required, input voltage range will be 100-240VAC(50/60Hz).
*3. Not applicable for the in-rush current to Noise Filter less than 0.2ms.
*4. Measure with EIAJ RC-9131 probe, Bandwidth 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 DENTORI(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 DENTORI, built to meet at 100VAC.

JWS 300

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	-

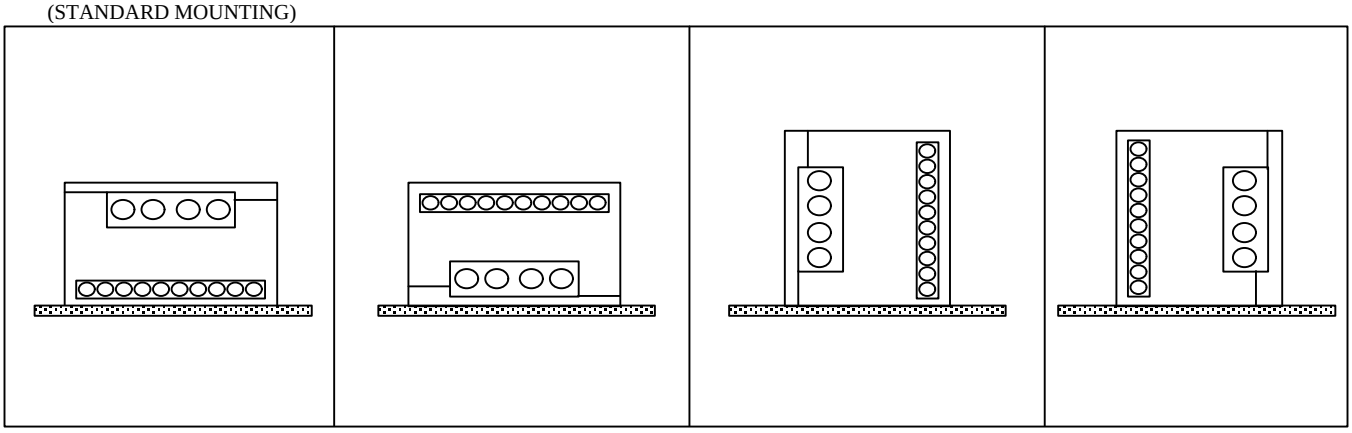


MOUNTING A
(STANDARD MOUNTING)

MOUNTING B

MOUNTING C

MOUNTING D



JWS 300

SPECIFICATIONS

A161-01-03C

	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		-	Built 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	0 ~ +65°C	mV	150	150	150	150
	(*4)	-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			
33	Safety	(*12)	-	Approved by UL1950, CSA950, EN60950,VDE0160. Built to meet DENTORI.			
34	Conducted Emission		-	Built to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB.			
35	Radiated Emission		-	Built 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)			

*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 EIAJ 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 DENTORI(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 DENTORI, built to meet at 100VAC.