

JWS 150/A

SPECIFICATIONS

A160-01-01/A-B

ITEMS		MODEL	JWS150 -3/A	JWS150 -5/A	JWS150 -12/A	JWS150 -15A	JWS150 -24/A	JWS150 -48/A	
1	Nominal Output Voltage	V	3.3	5	12	15	24	48	
2	Maximum Output Current	A	30	30	13	10	6.5	3.3	
3	Maximum Output Power	W	99	150	156	150	156	158.4	
4	Efficiency (Typ) (*)	%	67	75	77	78	80	80	
5	Input Voltage Range (*)	-	85 - 265VAC (47-63Hz) or 120 - 330VDC						
6	Input Current (100/200VAC)(Typ) (*)	-	1.5/0.75	2.0/1.0A					
7	Inrush Current(Typ)	-	25A at 100VAC, 50A at 200VAC, Ta=25°C, Cold Start						
8	PFHC	-	Designed to meet EN61000-3-2						
9	Power Factor (100/200VAC)(Typ) (*)	-	0.99/0.95						
10	Output Voltage Range	V	2.85-3.63	4.5-5.5	10.8-13.2	13.5-16.5	21.6-26.4	43.2-52.8	
11	Maximum Ripple & Noise (*)	0 - +50°C	mV	120	120	150	150	150	200
		-10 - 0°C	mV	160	160	180	180	180	240
12	Maximum Line Regulation (*)	mV	20	20	48	60	96	192	
13	Maximum Load Regulation (*)	mV	40	40	96	120	150	240	
14	Temperature Coefficient	-	Less than 0.02%/°C						
15	Over Current Protection (*)	A	31.5-	31.5-	13.65-	10.5-	6.82-	3.46-	
16	Over Voltage Protection (*)	V	3.79-4.95	5.75-6.75	13.8-16.2	17.3-20.3	27.6-32.4	55.2-64.8	
17	Hold-up Time (Typ) (*)	-	20ms						
18	Leakage Current (*)	-	0.75mA MAX, 0.2mA(Typ) at 100VAC / 0.44mA(Typ) at 230VAC						
19	Remote Sensing	-	Possible						
20	Parallel Operation	-	-						
21	Series Operation	-	Possible						
22	Operating Temperature (*)	-	-10 - +50°C (-10 - +40°C:100%, +50°C:60%)						
23	Operating Humidity	-	30 - 90%RH (No dewdrop)						
24	Storage Temperature	-	-30 - +85°C						
25	Storage Humidity	-	10 - 95%RH (No dewdrop)						
26	Cooling	-	Convection Cooling						
27	Withstand Voltage	-	Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA) Output - FG : 500VAC (100mA) for 1min						
28	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output - FG...500VDC						
29	Vibration	-	At no operating, 10-55Hz (Sweep for 1min) 19.6m/s ² Constant, X,Y,Z 1h each.						
30	Shock (In package)	-	Less than 196.1m/s ²						
31	Safety (*)		Approved by UL60950-1, CSA C22.2 No.60950-1 & EN60950-1. Designed to meet DENAN.						
32	Conducted Emission	-	Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-B.						
33	Radiated Emission	-	Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-B.						
34	Weight(Typ)	-	900g						
35	Size (W.H.D)	mm	65 x 92 x 198 (Refer to Outline Drawing)						

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

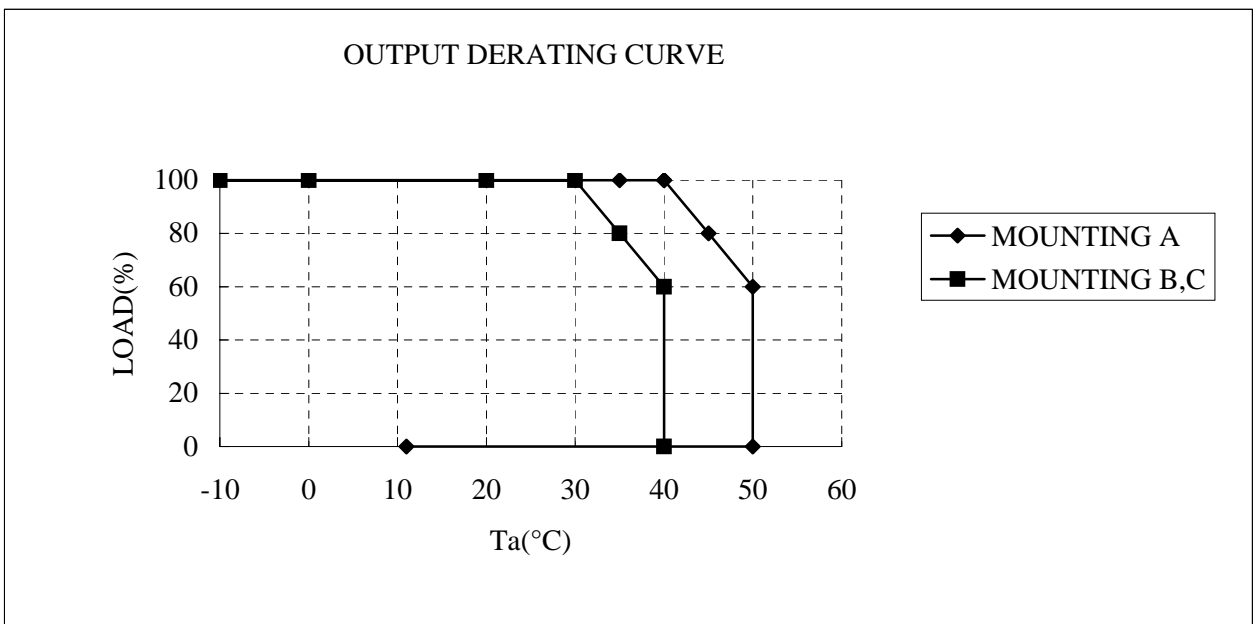
=NOTES=

- *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. Measure with JEITA RC-9131 probe, Bandwise of scope :100MHz.
- *4. 85 - 265VAC , constant load.
- *5. No load-Full load, constant input voltage.
- *6. Constant current limit with automatic recovery.
- *7. OVP circuit will shut down output, manual reset (Line recycle).
- *8. At 100/200VAC nominal output voltage and maximum output current.
- *9. Measured by the each measuring method of UL,CSA,EN and DENAN (at 60Hz).
- *10. 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 (A160-01-02/A-).
- *11. As for DENAN, designed to meet at 100VAC.

OUTPUT DERATING

A160-01-02/A

Ta(°C)	LOAD(%)		
	MOUNTING A	MOUNTING B	MOUNTING C
-10 ~+30	100	100	100
35	100	80	80
40	100	60	60
45	80	-	-
50	60	-	-



MOUNTING A

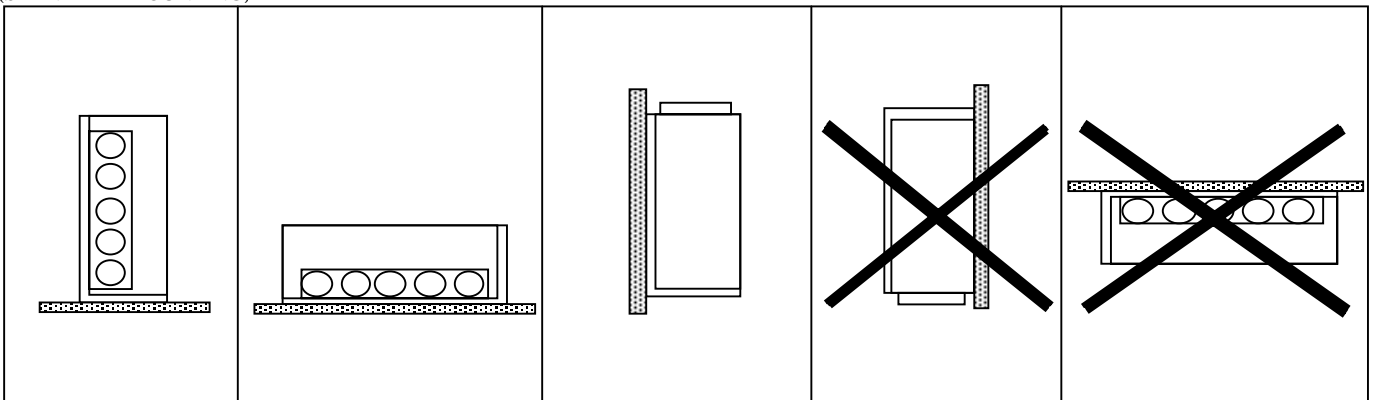
MOUNTING B

MOUNTING C

DON'T USE

DON'T USE

(STANDARD MOUNTING)



SPECIFICATIONS

A160-01-03/A-A

MODEL		JWS150	
ITEMS		-28/A	
1	Nominal Output Voltage	28V	
2	Maximum Output Current	5.5A	
3	Maximum Output Power	154W	
4	Efficiency (Typ.) (*1)	80%	
5	Input Voltage Range (*2)	85 - 265VAC (47 - 63Hz) or 120 - 330VDC	
6	Input Current (100/200VAC)(Typ.) (*1)	2.0/1.0A	
7	Inrush Current (Typ.)	25A at 100VAC, 50A at 200VAC, Ta=25°C, Cold Start	
8	PFHC	Designed to meet EN61000-3-2	
9	Power Factor (100/200VAC)(Typ.) (*1)	0.99/0.95	
10	Output Voltage Range	25.2 - 30.8V	
11	Maximum Ripple & Noise (*3)	0 - +50°C	150mV
		-10 - 0°C	180mV
12	Maximum Line Regulation (*4)	112mV	
13	Maximum Load Regulation (*5)	160mV	
14	Temperature Coefficient	Less than 0.02%/°C	
15	Over Current Protection (*6)	5.77A-	
16	Over Voltage Protection (*7)	32.2 - 37.8V	
17	Hold-up Time (Typ.) (*8)	20ms	
18	Leakage Current (*9)	0.75mA MAX, 0.2mA(Typ.) at 100VAC / 0.44mA(Typ.) at 230VAC	
19	Remote Sensing	Possible	
20	Parallel Operation	-	
21	Series Operation	Possible	
22	Operating Temperature (*10)	-10 - +50°C (-10 - +40°C:100%, +50°C:60%)	
23	Operating Humidity	30 - 90%RH (No dewdrop)	
24	Storage Temperature	-30 - +85°C	
25	Storage Humidity	10 - 95%RH (No dewdrop)	
26	Cooling	Convection Cooling	
27	Withstand Voltage	Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA) Output - FG : 500VAC (100mA) for 1min	
28	Isolation Resistance	More than 100MΩ at 25°C and 70%RH Output - FG ... 500VDC	
29	Vibration	At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s ² Constant, X,Y,Z 1h each.	
30	Shock (In package)	Less than 196.1m/s ²	
31	Safety (*11)	Approved by UL60950-1, CSA C22.2 No.60950-1 & EN60950-1. Designed to meet DENAN.	
32	Conducted Emission	Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-B.	
33	Radiated Emission	Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-B.	
34	Weight (Typ.)	900g	
35	Size (W x H x D)	mm 65 x 92 x 198 (Refer to Outline Drawing)	

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