

**SPECIFICATIONS**

A159-01-01B

ITEMS		MODEL	JWS100 -3	JWS100 -5	JWS100 -12	JWS100 -15	JWS100 -24	JWS100 -48	
1	Nominal Output Voltage	V	3.3	5	12	15	24	48	
2	Maximum Output Current	A	20	20	8.5	7	4.5	2.1	
3	Maximum Output Power	W	66	100	102	105	108	100.8	
4	Efficiency (Typ) (*1)	%	67	75	76	77	79	79	
5	Input Voltage Range (*2)	-	85 - 265VAC (47 - 63Hz) or 120 - 330VDC						
6	Input Current (100/200VAC)(Typ) (*1)	A	1.0/0.5	1.4/0.7					
7	Inrush Current(Typ)	-	14A at 100VAC, 28A 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	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 (*3)	0 - +60°C	mV	120	120	150	150	150	200
		-10 - 0°C	mV	160	160	180	180	180	240
12	Maximum Line Regulation (*4)	mV	20	20	48	60	96	192	
13	Maximum Load Regulation (*5)	mV	40	40	96	120	150	240	
14	Temperature Coefficient	-	Less than 0.02%/°C						
15	Over Current Protection (*6)	A	21 -	21 -	8.92 -	7.35 -	4.72 -	2.2 -	
16	Over Voltage Protection (*7)	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) (*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 - +60°C (-10 - +50°C:100%, +60°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 <sup>2</sup> Constant, X,Y,Z 1hour each.						
30	Shock (In package)	-	Less than 196.1m/s <sup>2</sup>						
31	Safety (*11)	-	Approved by UL60950-1, CSA C22.2 No.60950, 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.)	-	650g						
35	Size (W x H x D)	mm	50 x 92 x 188 ( Refer to Outline Drawing )						

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

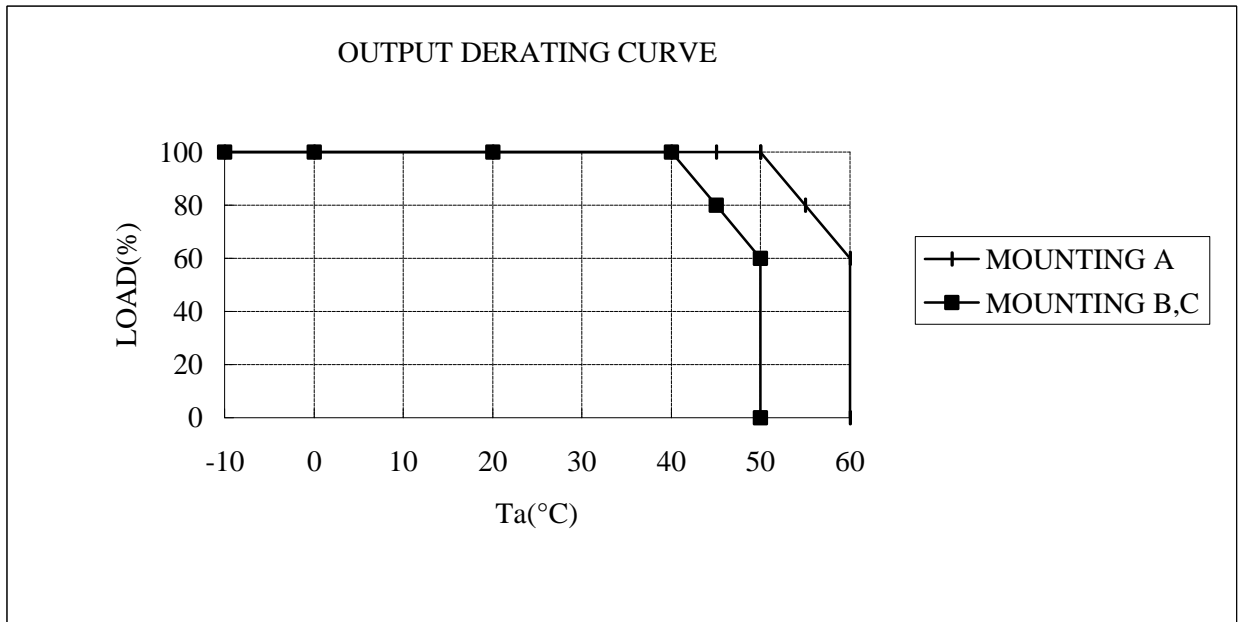
=NOTES=

- \*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 (A159-01-02\_).
- \*11. As for DENAN, designed to meet at 100VAC.

**OUTPUT DERATING**

A159-01-02

Ta(°C)	LOAD(%)		
	MOUNTING A	MOUNTING B	MOUNTING C
-10 ~+40	100	100	100
45	100	80	80
50	100	60	60
55	80	-	-
60	60	-	-



**MOUNTING A**

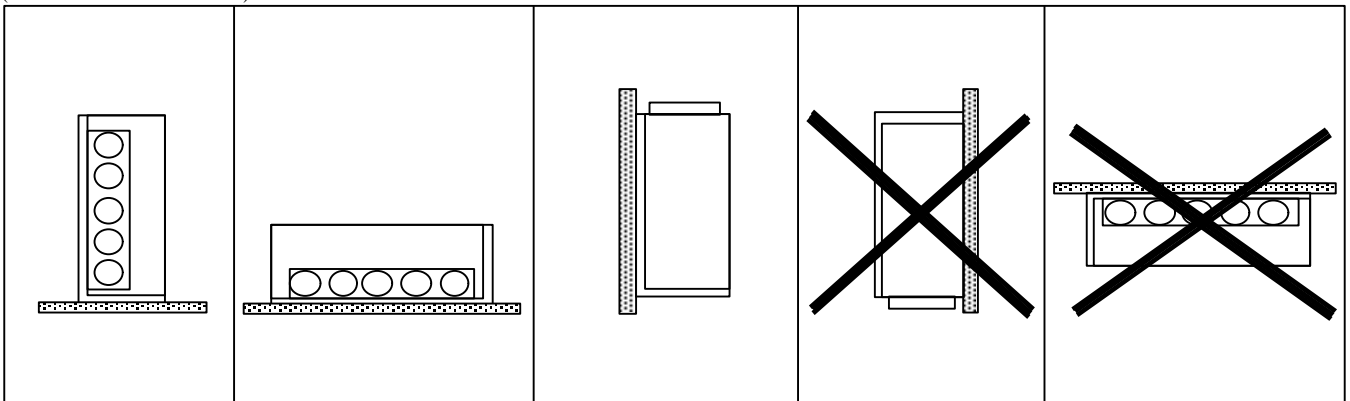
**MOUNTING B**

**MOUNTING C**

**DON'T USE**

**DON'T USE**

(STANDARD MOUNTING)



**JWS 100**

**SPECIFICATIONS**

A159-01-03D

ITEMS		MODEL	JWS100 -6	JWS100 -9	JWS100 -28	
1	Nominal Output Voltage	V	6	9	28	
2	Maximum Output Current	A	16.7	11.2	3.6	
3	Maximum Output Power	W	100.2	100.8	100.8	
4	Efficiency (Typ.)	(*1) %	75	75	79	
5	Input Voltage Range	(*2) -	85 - 265VAC (47 - 63Hz) or 120 - 330VDC			
6	Input Current (100/200VAC) (Typ.)	(*1) -	1.4 / 0.7A			
7	Inrush Current (Typ.)	-	14A at 100VAC, 28A 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	V	5.4 - 6.6	8.1 - 9.9	25.2 - 30.8	
11	Maximum Ripple & Noise (*3)	0 - +60°C	mV	120	150	150
		-10 - 0°C	mV	160	180	180
12	Maximum Line Regulation	(*4) mV	24	36	112	
13	Maximum Load Regulation	(*5) mV	48	72	160	
14	Temperature Coefficient	-	Less than 0.02%/°C			
15	Over Current Protection	(*6) A	17.5 -	11.8 -	3.78 -	
16	Over Voltage Protection	(*7) V	6.9 - 8.1	10.4 - 12.2	32.2 - 37.8	
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 - +60°C (-10 - +50°C:100%, +60°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			
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30	Shock (In package)	-	Less than 196.1m/s <sup>2</sup>			
31	Safety	(*11) -	Approved by UL60950-1, CSA C22.2 No.60950, EN60950-1. Designed to meet DENAN.			
32	Conducted Emission	-	Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-B.			
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34	Weight (Typ.)	-	650g			
35	Size (W x H x D)	mm	50 x 92 x 188 ( Refer to Outline Drawing )			

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