

SPECIFICATIONS

A159-01-01/A-C

ITEMS		MODEL	JWS100 -3/A	JWS100 -5/A	JWS100 -12/A	JWS100 -15/A	JWS100 -24/A	JWS100 -48/A
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 - +50°C -10 - 0°C	mV	120	120	150	150	200
12	Maximum Line Regulation (*4)	mV	160	160	180	180	180	240
13	Maximum Load Regulation (*5)	mV	20	20	48	60	96	192
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)	-	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 - +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/s² Constant, X,Y,Z 1h each.				
30	Shock (In package)	-		Less than 196.1m/s²				
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)	-		700g				
35	Size (W.H.D)	mm		50 x 92 x 188 (Refer to Outline Drawing)				

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

=NOTES=

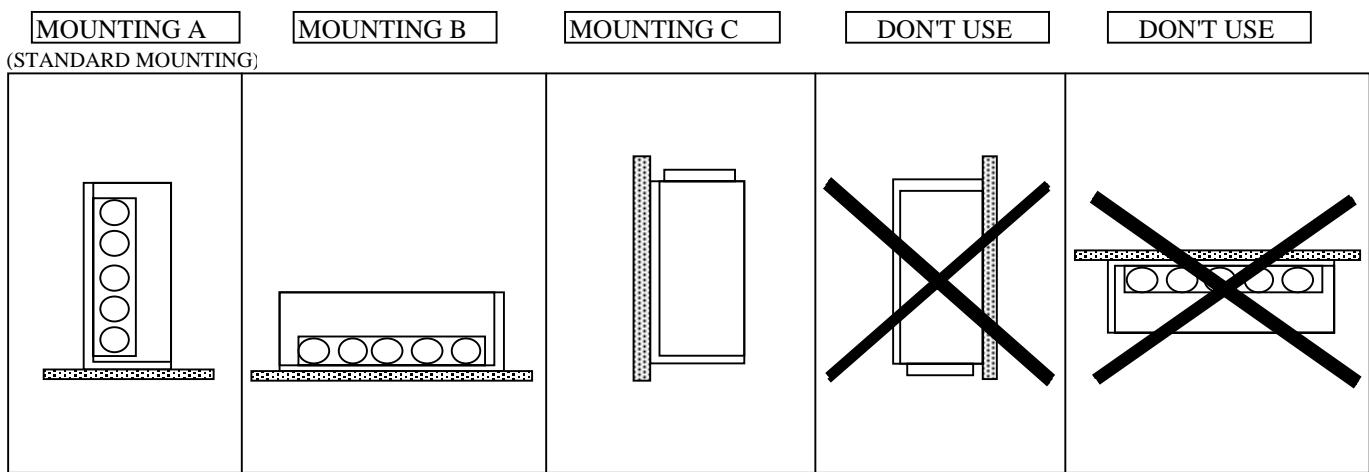
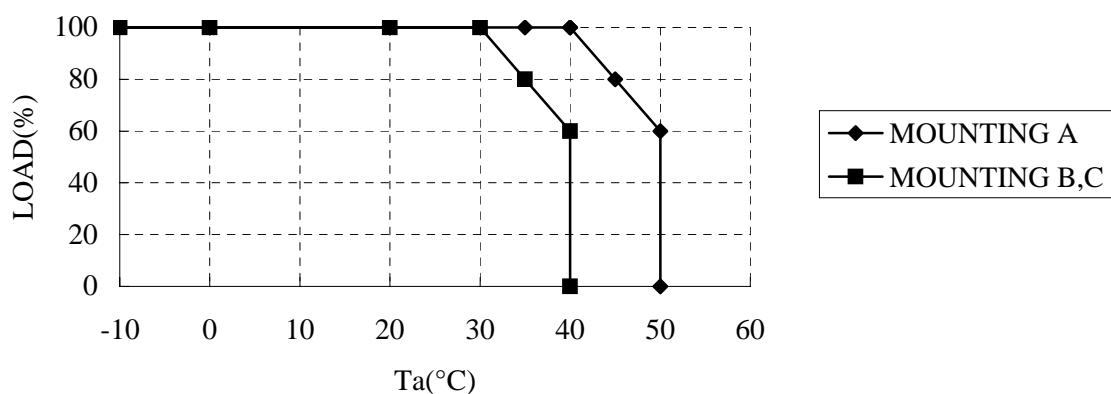
- *1. At 100/200VAC, Ta=25°C and maximum output power.
- *2. For cases where conformance to various safety specs (UL, CSA, EN) are required, input voltage range will be 100-240VAC(50/60Hz).
- *3. Measure with JEITA RC-9131 probe, Bandwise of scope :100MHz.
- *4. 85 - 265VAC , constant load.
- *5. No 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/A-_-).
- *11. As for DENAN, designed to meet at 100VAC.

OUTPUT DERATING

A159-01-02/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	-	-

OUTPUT DERATING CURVE



SPECIFICATIONS

A159-01-03/A-D

ITEMS		MODEL	JWS100 -6/A	JWS100 -9/A	JWS100 -28/A
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	0 - +50°C	mV	120	150
	(*3)	-10 - 0°C	mV	160	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 - +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/s² Constant, X,Y,Z 1h each.		
30	Shock (In package)	-		Less than 196.1m/s²	
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34	Weight (Typ.)	-		700g	
35	Size (WxHxD)	mm	50 x 92 x 188 (Refer to Outline Drawing)		

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