JWS 150

SPECIFICATIONS

A160-01-01B

MODEL	JWS150	JWS150	JWS150	JWS150	JWS150	JWS150		
ITEMS		-3	-5	-12	-15	-24	-48	
1 Nominal Output Voltage	V	3.3	5	12	15	24	48	
2 Maximum Output Current	Α	30	30	13	10	6.5	3.3	
3 Maximum Output Power	W	99	150	156	150	156	158.4	
4 Efficiency (Typ) (*1)	%	67	75	77	78	80	80	
5 Input Voltage Range (*2)	-		85 - 265V	VAC (47 - 63	Hz) or 120 -	330VDC		
6 Input Current (100/200VAC)(Typ) (*1) A		1.5/0.75 2.0/1.0						
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	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 - +60°C		120	120	150	150	150	200	
(*3) -10 - 0°C	_	160	160	180	180	180	240	
12 Maximum Line Regulation (*4)		20	20	48	60	96	192	
13 Maximum Load Regulation (*5)	mV	40	40	96	120	150	240	
14 Temperature Coefficient	-				0.02%/°C			
15 Over Current Protection (*6)		31.5 -	31.5 -	13.65 -	10.5 -	6.82 -	3.46 -	
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		230VAC				
19 Remote Sensing -		Possible						
20 Parallel Operation		-						
21 Series Operation	-				sible			
22 Operating Temperature (*10)	-				°C:100%, +6			
23 Operating Humidity	-		3		(No dewdrop)		
24 Storage Temperature	-				+85°C			
25 Storage Humidity	-				(No dewdrop	p)		
26 Cooling	-				on Cooling			
27 Withstand Voltage	27 Withstand Voltage -		Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA) Output - FG : 500VAC (100mA) for 1min					
28 Isolation Resistance	-	More t				out - FG 50	0VDC	
29 Vibration	-			•	5Hz (Sweep	,		
			19.6		nt, X,Y,Z 1h	each.		
30 Shock (In package)	-				$196.1 \mathrm{m/s}^2$			
31 Safety (*11)	-	Approved by UL60950-1, CSA C22.2 No.60950-1 & EN60950-1.						
		Designed to meet DENAN. Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-B.						
32 Conducted Emission	-							
33 Radiated Emission	-	Design	ned to meet E			C-ClassB, VO	CCI-B.	
34 Weight(Typ.) -		850g 65 x 92 x 198 (Refer to Outline Drawing)						
35 Size (W x H x D)	mm		65 x 92	x 198 (Refei	to Outline D	Orawing)		

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

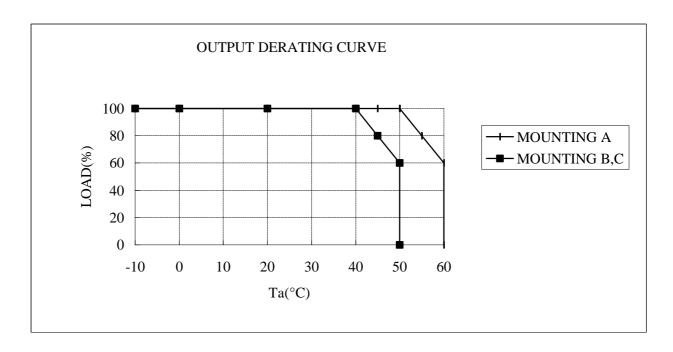
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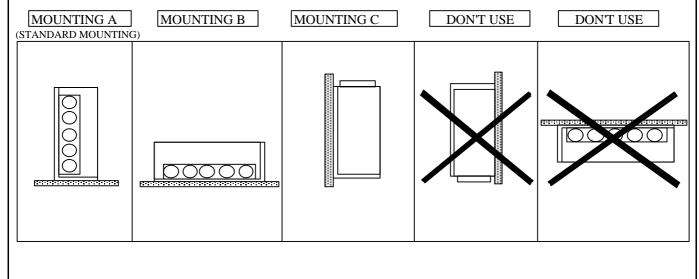
- *1. At 100/200VAC, Ta=25°C and maximum output power.
- *2. For cases where conformance to various safety specs (UL, CSA, EN) are required, input voltage range will be 100 240VAC(50/60Hz).
- *3. Measure with JEITA RC-9131 probe, Bandwise of scope :100MHz.
- *4. 85 265VAC, constant load.
- *5. No load-Full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

OUTPUT DERATING

A160-01-02

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





JWS 150

SPECIFICATIONS

A160-01-03A

MODEL		JWS150		
ITEMS		-28		
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 0 - +60°C	-	150mV		
(*3) -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 - +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 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.)		850g		
35 Size (W x H x D) m		65 x 92 x 198 (Refer to Outline Drawing)		

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=NOTES=

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- *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.
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- *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).
- *11 As for DENAN, designed to meet at 100VAC.