JWS300/508

SPECIFICATIONS

A161-01-01/508-B

MODEL ITEMS		JWS300-24/508
1 Nominal Output Voltage		24V
2 Maximum Output Current	1 - 1	14A
3 Maximum Output Power	1 - 1	336W
4 Efficiency (Typ.) (*1		80%
5 Input Voltage Range (*2	/	85 - 265VAC (47-63Hz) or 120 - 330VDC
6 Input Current (100/200VAC)(Typ.) (*1)	/	4.4A/2.2A
7 Inrush Current(Typ.) (*3		20A at 100VAC, 40A at 200VAC
8 PFHC	/	Designed to meet EN61000-3-2
9 Power Factor (100/200VAC)(Typ.) (*1)	+	0.99/0.95
10 Output Voltage Range		21.6V-28.8V
11 Maximum Ripple & Noise 0 - +65°C	7 -	150mV
(*4) -10 - 0°C		200mV
12 Maximum Line Regulation (*5		96mV
13 Maximum Load Regulation (*6		144mV
14 Temperature Coefficient	-	Less than 0.02%/°C
15 Over Current Protection (*7	-	14.7A-
		30.0V-34.8V
	/	20ms
17 Hold-up Time (Typ.) (*9	/	
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	<u> </u>	PF (Open Collector Output)
22 Parallel Operation	-	Possible
23 Series Operation	ļ -	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 UL508, CSA C22.2 No.14, UL60950-1,
		CSA C22.2 No.60950 & EN60950-1. Designed to meet DENAN.
34 Conducted Emission	-	Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB.
35 Radiated Emission	1 - 1	Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB.
36 Weight(Typ.)	1-1	1900g
37 Size (W x H x D)	mm	120 x 92 x 190 (Refer to Outline Drawing)
SI DILO (WALLAD)	111111	120 A /2 A 1/0 (Refer to Outline Diaming)

^{*}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 JEITA 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 DENAN(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 DENAN, designed to meet at 100VAC.

JWS300/508

SPECIFICATIONS

A161-01-03/508-A

TEMS	MODEL		JWS300-12/508
2 Maximum Output Current - 37A 3 Maximum Output Power - 324W Efficiency (Typ.)	ITEMS		
Maximum Output Power		-	
Efficiency (Typ.)	2 Maximum Output Current	-	
Society Soc		-	
Input Current (100/200VAC)(Typ.) (*1) 4.4A/2.2A Inrush Current(Typ.) (*3) 20A at 100VAC, 40A at 200VAC PFHC	4 Efficiency (Typ.) (*1)	-	
7 Imrush Current(Typ.)		-	
PFHC	6 Input Current (100/200VAC)(Typ.) (*1)	•	
9 Power Factor (100/200VAC)(Typ.) (*1) -		1	
10	8 PFHC	-	
Maximum Ripple & Noise	9 Power Factor (100/200VAC)(Typ.) (*1)	-	0.99/0.95
Maximum Line Regulation (*5) -	10 Output Voltage Range	-	10.8V-14.4V
12 Maximum Line Regulation (*5) -	11 Maximum Ripple & Noise 0 - +65°C	-	150mV
13 Maximum Load Regulation (*6) - T2mV		•	
14 Temperature Coefficient	12 Maximum Line Regulation (*5)	•	
15 Over Current Protection (*7) - 28.4A 15.0V-17.4V 17 Hold-up Time (Typ.) (*9) - 20ms 20ms 18 Leakage Current (*10) - 0.75mA MAX, 0.2mA (Typ.) at 100VAC / 0.44mA (Typ.) at 230VAC. 19 Remote Sensing - Possible Possible 20 Remote ON/OFF control - Possible 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 Input - FG:2kVAC(20mA), Input - Output:3kVAC (20mA) Output - FG:500VAC(100mA), Output-CNT:100VAC(100mA) for 1min. 19.6m/s² Constant, X, Z, 1h each. 19.6m/s² Constant, X, Y, Z, 1h each. 28 Safety (*12) Approved by UL508, CSA C22.2 No.14, UL60950-1, CSA C22.2 No.60950 & EN60950-1. Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB, 36 Weight(Typ.) 1900g Possible 1900g Possible		-	
16 Over Voltage Protection (*8) -		-	Less than 0.02%/°C
17 Hold-up Time (Typ.)	15 Over Current Protection (*7)	•	
Remote Sensing	16 Over Voltage Protection (*8)	-	15.0V-17.4V
19 Remote Sensing	17 Hold-up Time (Typ.) (*9)	-	20ms
20 Remote ON/OFF control - Possible	18 Leakage Current (*10)	-	0.75mA MAX, 0.2mA (Typ.) at 100VAC / 0.44mA (Typ.) at 230VAC.
PF (Open Collector Output)	19 Remote Sensing	-	Possible
Parallel Operation	20 Remote ON/OFF control	-	
23 Series Operation - Possible		-	PF (Open Collector Output)
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) 30 Isolation Resistance - More than 100MΩ Output - FG 500VDC More than 10MΩ Output - FG 500VDC More than 10MΩ Output - CNT 100VDC at 25°C and 70%RH 31 Vibration - At no operating, 10 - 55Hz (Sweep for Imin.) 32 Shock (In package) - Less than 196.1m/s² 33 Safety (*12) - Approved by UL508, CSA C22.2 No.14, UL60950-1, CSA C22.2 No.60950 & EN60950-1. Designed to meet DENAN. 34 Conducted Emission - Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB. 36 Weight(Typ.) - 1900g	22 Parallel Operation	-	
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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) 30 Isolation Resistance - More than 100MΩ Output - FG 500VDC 31 Wibration - At no operating, 10 - 55Hz (Sweep for 1min.) 32 Shock (In package) - Less than 196.1m/s² 33 Safety (*12) - Approved by UL508, CSA C22.2 No.14, UL60950-1, CSA C22.2 No.60950 & EN60950-1. Designed to meet DENAN. 34 Conducted Emission - Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB. 35 Radiated Emission - Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB. 36 Weight(Typ.) - 1900g	24 Operating Temperature (*11)	-	-10 - +65°C (-10 - +50°C:100%, +60°C:70%, +65°C:55%)
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) 30 Isolation Resistance - More than 100MΩ Output - CNT:100VAC(100mA) for 1min. 31 Vibration - More than 10MΩ Output - CNT 100VDC at 25°C and 70%RH 31 Vibration - At no operating, 10 - 55Hz (Sweep for 1min.) 32 Shock (In package) - Less than 196.1m/s² 33 Safety (*12) - Approved by UL508, CSA C22.2 No.14, UL60950-1, CSA C22.2 No.60950 & EN60950-1. Designed to meet DENAN. 34 Conducted Emission - Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB. 35 Radiated Emission - Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB. 36 Weight(Typ.) - 1900g	25 Operating Humidity	-	10 - 90%RH (No dewdrop)
28 Cooling Forced Air By Blower Fan 29 Withstand Voltage Input - FG:2kVAC(20mA), Input - Output:3kVAC (20mA) 30 Isolation Resistance More than 100MΩ Output - FG 500VDC 31 Vibration More than 10MΩ Output - CNT 100VDC at 25°C and 70%RH 32 Shock (In package) Approved by UL508, CSA C22.2 No.14, UL60950-1, CSA C22.2 No.60950 & EN60950-1. Designed to meet DENAN. 33 Safety Conducted Emission Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB. 34 Conducted Emission Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB. 36 Weight(Typ.) Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB. 36 Weight(Typ.) Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB. 37 Safety S		-	
29 Withstand Voltage	27 Storage Humidity	-	10 - 95%RH (No dewdrop)
Output - FG:500VAC(100mA), Output-CNT:100VAC(100mA) for 1min. 30 Isolation Resistance - More than 100MΩ Output - FG 500VDC 31 Vibration - At no operating, 10 - 55Hz (Sweep for 1min.) 32 Shock (In package) - Less than 196.1m/s² 33 Safety (*12) - Approved by UL508, CSA C22.2 No.14, UL60950-1, CSA C22.2 No.60950 & EN60950-1. Designed to meet DENAN. 34 Conducted Emission - Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB. 35 Radiated Emission - Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB. 36 Weight(Typ.) - 1900g		-	
Solution Resistance - More than 100MΩ Output - FG 500VDC More than 10MΩ Output - CNT 100VDC at 25°C and 70%RH	29 Withstand Voltage	-	
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35 Radiated Emission-Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-ClassB.36 Weight(Typ.)-1900g			
0 0 11 0 - H 0 - H 0 1	35 Radiated Emission	-	
37 Size (W x H x D) mm 120 x 92 x 190 (Refer to Outline Drawing)		-	$\boldsymbol{\mathcal{E}}$
	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 JEITA 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 DENAN(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 DENAN, designed to meet at 100VAC.