## JWS 600

## **SPECIFICATIONS**

A162-01-01D SPECIFICATIONS										
MODEL				JWS600	JWS600	JWS600	JWS600	JWS600	JWS600	JWS600
	ITEMS			-2	-3	-5	-12	-15	-24	-48
1	Nominal Output Voltage		V	2	3.3	5	12	15	24	48
2	Maximum Output Current		А	120	120	120	53	43	27	13
3	Maximum Output Power		W	240	396	600	636	645	648	624
4	Efficiency (Typ)	(*1)	%	61	70	75	80	81	82	83
5	Input Voltage Range	(*2)	-	85 - 265VAC (47-63Hz) or 120 - 330VDC						
6	Input Current (100/200VAC)	(Typ) (*1)	Α	4.0/2.0	5.8/2.9	Ì	8.2			
7	Inrush Current(Typ)	(*3)	-	20A at 100VAC, 40A at 200VAC						
8	PFHC	, , ,	-			Designed	to meet ENG	51000-3-2		
9	Power Factor (100/200VAC)	Typ) (*1)	-				0.99/0.95			
10	Output Voltage Range		V	1.80-2.40	2.97-3.96	4.50-6.00	10.8-14.4	13.5-18.0	21.6-28.8	43.2-52.8
11	Maximum Ripple & Noise	0 - +65°C	mV	120	120	120	150	150	150	350
	(*4)	-10 - 0°C	mV	180	180	180	200	200	200	400
12	Maximum Line Regulation	(*5)	mV	20	20	20	48	60	96	192
13	Maximum Load Regulation	(*6)	mV	30	30	30	72	90	144	288
14	Temperature Coefficient					Less	s than 0.02%	∕₀/°C		
15	Over Current Protection	(*7)	Α	126-	126-	126-	55.6-	45.2-	28.4-	13.7-
16	Over Voltage Protection	(*8)	V	2.50-3.00	4.12-4.95	6.25-7.25	15.0-17.4	18.7-21.8	30.0-34.8	55.2-64.8
17	Hold-up Time (Typ)	(*9)	-	20ms						
18	Leakage Current	(*10)	-	0.75mA MAX, 0.25mA(Typ) at 100VAC / 0.57mA(Typ) at 230VAC						
19	Remote Sensing		-	Possible						
20	Remote ON/OFF control		-	Possible						
21	Monitoring Signal		-	PF (Open Collector Output)						
22	Parallel Operation		-	Possible						
23	Series Operation		-	Possible						
24	Operating Temperature	(*11)	-	-10 - +65 ( -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 100Mohm Output - FG 500VDC						
			-	More than 10Mohm Output - CNT 100VDC at 25°C and 70%RH						
31	Vibration		-	At no operating, 10-55Hz (Sweep for 1min.)						
				19.6m/s <sup>2</sup> Constant, X,Y,Z 1h each.						
32	Shock (In package)		-	Less than $196.1 \text{m/s}^2$						
33	Safety	(*12)	-	Approved by 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.)		-	- 3000g						
37	Size (WxHxD)		mm		160	x 92 x 200 (	(Refer to O	utline Draw	ring)	

\*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. First in-rush current. 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 persent of maximum output power or maximum output current, whichever is greater.
  - As for other mountings, refer to derating curve (A162-01-02\_).

\*12. As for DENAN, designed to meet at 100VAC.

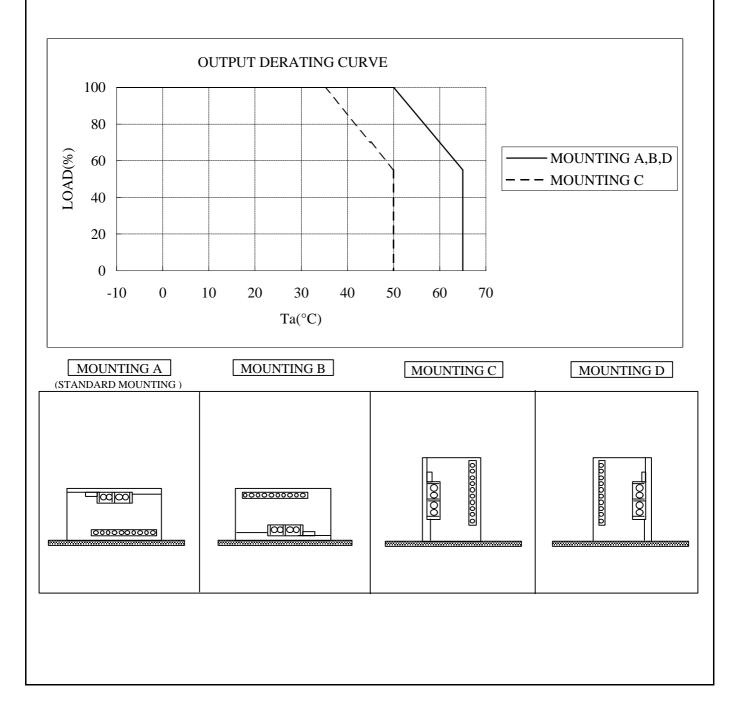
# **DENSEI-LAMBDA**

## <u>JWS 600</u>

A162-01-02

	LOAD(%)							
Ta(°C)	MOUNTING A	MOUNTING B	MOUNTING C	MOUNTING D				
-10 ~+35	100	100	100	100				
45	100	100	70	100				
50	100	100	55	100				
60	70	70	-	70				
65	55	55	-	55				

**OUTPUT DERATING** 



### **JWS 600**

### **SPECIFICATIONS**

A162-01-03C SPECIFICATIONS									
MODEL				JWS600	JWS600	JWS600	JWS600		
ITEMS				-6	-8	-9	-28		
1	Nominal Output Voltage		V	6	8	9	28		
2	Maximum Output Current		Α	100	68	68	23		
3	Maximum Output Power		W	600	544	612	644		
4	Efficiency (Typ)	(*1)	%	75	77	77	82		
5	Input Voltage Range	(*2)	-	8:	5 - 265VAC (47 - 63	Hz) or 120 - 330VI	C		
6	Input Current (100/200VAC)(		А		8.2				
7	Inrush Current(Typ)	(*3	_		20A at 100VAC.	, 40A at 200VAC			
8	PFHC	<u> </u>	-		Designed to me				
9	Power Factor (100/200VAC)(	Typ) (*1)	-		ě	0/0.95			
10	Output Voltage Range		V	5.40 - 7.20	7.20 - 9.60	8.10 - 10.8	25.2 - 33.6		
11		0 - +65°C	mV	120	150	150	150		
	(*4)	-10 - 0°C		180	200	200	200		
12	Maximum Line Regulation	(*5)		24	32	36	112		
13	Maximum Load Regulation	(*6)		36	48	54	168		
	Temperature Coefficient		-	Less than 0.02%/°C					
15	Over Current Protection	(*7)	Α	105-	71.4-	71.4-	24.2-		
16	Over Voltage Protection	(*8)	V	7.50 - 8.70	10.0 - 11.6	11.2 - 13.1	35.0 - 40.6		
17	Hold-up Time (Typ)	(*9)	-	20ms					
18	Leakage Current	(*10)	-	0.75mA MAX, 0.25mA(Typ) at 100VAC / 0.57mA(Typ) at 230VAC					
19	Remote Sensing		-	Possible					
20	Remote ON/OFF control		-		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					
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 100Mohm Output - FG 500VDC					
			-	More than 10Mohm Output - CNT 100VDC at 25°C and 70%RH					
31	Vibration		-	At no operating, 10 - 55Hz (Sweep for 1min.)					
				19.6m/s <sup>2</sup> Constant, X,Y,Z 1h each.					
32	Shock (In package)		-	Less than 196.1m/s <sup>2</sup>					
33	Safety	(*12)	-	Approved by 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.)		-	3000g					
37	Size (W x H x D) mm 160 x 92 x 200 ( 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. First in-rush current. 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.
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- \*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 persent of maximum output power or maximum output current, whichever is greater.
    - As for other mountings, refer to derating curve (A162-01-02\_).
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