SPECIFICATIONS

A157-01-01B

MODEL		JWS50	JWS50	JWS50	JWS50	JWS50	JWS50
ITEMS		-3	-5	-12	-15	-24	-48
1 Nominal Output Voltage		3.3	5	12	15	24	48
2 Maximum Output Current	Α	10	10	4.3	3.5	2.2	1.1
3 Maximum Output Power		33	50	51.6	52.5	52.8	52.8
4 Efficiency (Typ) (*1)	%	65	74	76	77	79	79
5 Input Voltage Range (*2)	-	85 - 265VAC (47-63Hz) or 120 - 330VDC					
6 Input Current (100/200VAC)(Typ) (*1)		0.6/0.3 0.8/0.4					
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 0 - +60°C		120	120	150	150	150	200
(*3) -10 - 0°C		160	160	180	180	180	240
	mV	20	20	48	60	96	192
<u> </u>	mV	40	40	96	120	150	240
14 Temperature Coefficient		Less than 0.02%/°C					
15 Over Current Protection (*6)	Α	10.5 -	10.5 -	4.5 -	3.6 -	2.3 -	1.15 -
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	-	-					
20 Parallel Operation	-	-					
21 Series Operation	-	Possible					
22 Operating Temperature (*10)	-	-10 - +60°C (-10 - +50°C:100%,+60°C:60%)					
23 Operating Humidity							
24 Storage Temperature	Storage Temperature30 - +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)			(0mA)			
		Output - FG: 500VAC (100mA) for 1min					
28 Isolation Resistance	-	More than 100Mohm 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 & 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.)	-	350g					
35 Size (WxHxD)	mm	37 x 85 x 159 (Refer to Outline Drawing)					

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

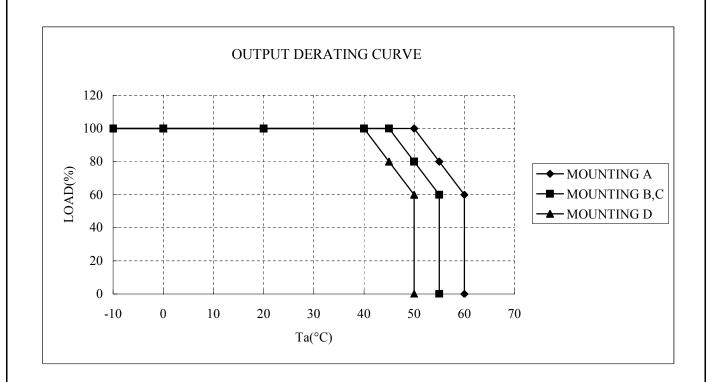
=NOTES=

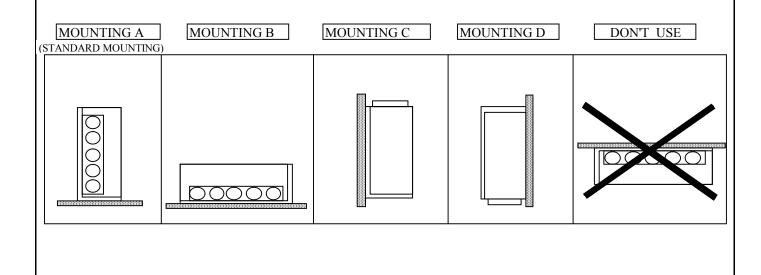
- *1. At 100/200VAC, Ta=25°C and maximum output power.
- *2. For cases where conformance to various safety specs (UL, CSA, EN) are required, input voltage range will be 100-240VAC(50/60Hz).
- *3. Measure with JEITA RC-9131 probe, Bandwise of scope :100MHz.
- *4. 85 265VAC, constant load.
- *5. No load-Full 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 (A157-01-02).
- *11. As for DENAN, designed to meet at 100VAC.

OUTPUT DERATING

A157-01-02

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





A157-01-03C

SPECIFICATIONS

MODEL		JWS50	JWS50		
ITEMS		-9	-28		
1 Nominal Output Voltage	V	9	28		
2 Maximum Output Current	Α	5.6	2.0		
3 Maximum Output Power	W	50.4	56.0		
4 Efficiency (Typ) (*1)	%	74	79		
5 Input Voltage Range (*2)	-	85 - 265VAC (47-63)	Hz) or 120 - 330VDC		
6 Input Current (100/200VAC)(Typ) (*1)	Α	0.8/0.4			
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	8.1-9.9	25.2-30.8		
11 Maximum Ripple & Noise 0 - +60°C	mV	150	150		
(*3) -10 - 0°C	mV	180	180		
12 Maximum Line Regulation (*4)	mV	36	112		
13 Maximum Load Regulation (*5)	mV	76	160		
14 Temperature Coefficient			Less than 0.02%/°C		
15 Over Current Protection (*6)	Α	5.88 -	2.10 -		
16 Over Voltage Protection (*7)	-	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	-	-			
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 100Mohm at 25°Cand 70%RH Output - FG500VDC			
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 & 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.)		350g			
35 Size (WxHxD)	mm	37 x 85 x 159 (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 (A157-01-02).
- *11. As for DENAN, designed to meet at 100VAC.