

SPECIFICATIONS

A183-01-01C

ITEMS		MODEL	JWS480P-24	JWS480P-48	
1	Nominal Output Voltage	V	24	48	
2	Average Output Current	A	20	10	
3	Peak Output Current	(*1) A	40	20	
4	Average Output Power	W	480	480	
5	Peak Output Power	(*1) W	960	960	
6	Efficiency (Typ)	(*2) %	80	80	
7	Input Voltage Range	(*3) -	85 - 265VAC (47 - 63Hz)		
8	Input Current (100/200VAC)(Typ)	(*2) A	6.4/3.2		
9	Inrush Current(Typ)	(*4) -	20A at 100VAC, 40A at 200VAC		
10	PFHC	-	Designed to meet EN61000-3-2		
11	Power Factor (100/200VAC)(Typ)	(*2) -	0.99/0.95		
12	Output Voltage Range	V	21.6 - 28.8	43.2 - 52.8	
13	Maximum Ripple & Noise	0 - +60°C	mV	240	480
		(*5) -10 - 0°C	mV	360	720
14	Maximum Line Regulation	(*6) mV	96	192	
15	Maximum Load Regulation	(*7) mV	192	384	
16	Temperature Coefficient	-	Less than 0.02%/°C		
17	Over Current Protection	(*8) A	40.8 -	20.4 -	
18	Over Voltage Protection	(*9) V	30.0 - 34.8	55.2 - 64.8	
19	Hold-up Time (Typ)	(*10) -	20ms		
20	Leakage Current	(*11) -	0.75mA MAX, 0.25mA(Typ) at 100VAC / 0.57mA(Typ) at 230VAC		
21	Remote Sensing	-	Possible		
22	Remote ON/OFF control	-	Possible		
23	Monitoring Signal	-	PF (Open Collector Output)		
24	Parallel Operation	-	—		
25	Series Operation	-	Possible		
26	Operating Temperature	(*12) -	-10 - +65°C(-10 - +50°C:100%, +60°C:70%,+65°C:55%)		
27	Operating Humidity	-	30 - 90%RH (No dewdrop)		
28	Storage Temperature	-	-30 - +85°C		
29	Storage Humidity	-	10 - 95%RH (No dewdrop)		
30	Cooling	-	Forced Air By Blower Fan		
31	Withstand Voltage	-	Input - FG:2kVAC(20mA), Input - Output:3kVAC (20mA) Output - FG:500VAC(100mA), Output-CNT:100VAC(100mA) for 1min.		
32	Isolation Resistance	-	More than 100MΩ Output - FG ... 500VDC More than 10MΩ Output - CNT ... 100VDC at 25°C and 70%RH		
33	Vibration	-	At no operating, 10 - 55Hz (Sweep for 1min) 19.6 m/s ² Constant, X, Y, Z 1h each.		
34	Shock (In package)	-	Less than 196.1 m/s ²		
35	Safety	(*12) -	Approved by UL60950-1, CSA C22.2 No.60950 & EN60950-1. Designed to meet DENAN.		
36	Conducted Emission	-	Designed to meet EN55011/EN55022-A, FCC-ClassA, VCCI-A.		
37	Radiated Emission	-	Designed to meet EN55011/EN55022-A, FCC-ClassA, VCCI-A.		
38	Weight (Typ.)	-	3000g		
39	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.

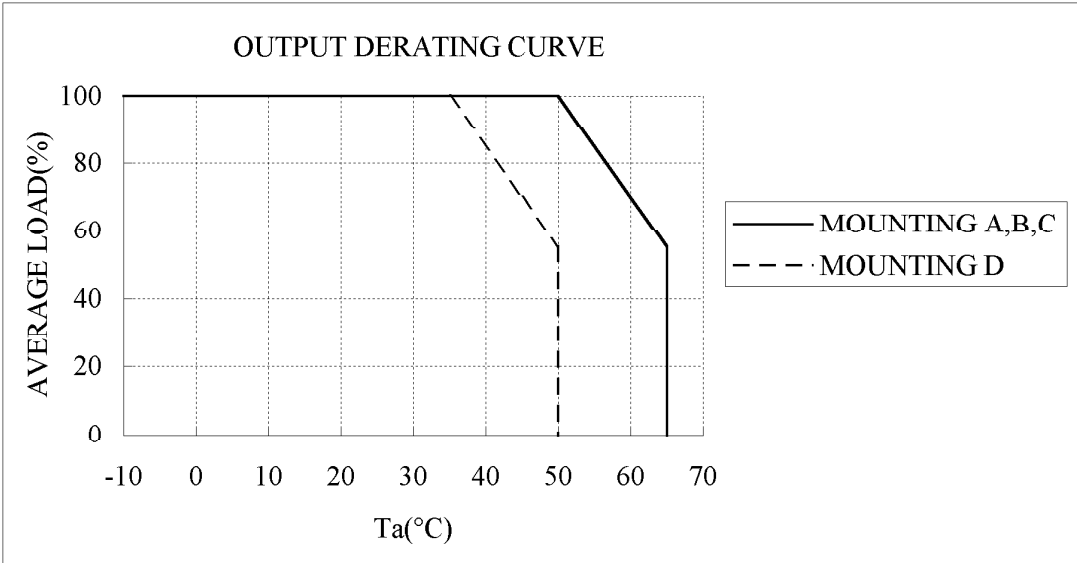
=NOTES=

- *1. Operating time at peak output is less than 10sec.(Duty<=0.5)
- *2. At 100/200VAC, Ta=25°C and average output power.
- *3. For cases where conformance to various safety specifications (UL, CSA, EN) are required, input voltage range will be 100 - 240VAC(50/60Hz).
- *4. First in-rush current. Not applicable for the in-rush current to Noise Filter less than 0.2ms.
- *5. Measure with JEITA RC-9131 probe, Bandwidth of scope :100MHz.
- *6. 85 - 265VAC , constant load.
- *7. No load - Average load, constant input voltage.
- *8. Constant current limit with automatic recovery.
Peak current conditions more than 10 seconds could result to shut down the output voltage.
- *9. OVP circuit will shut down output, manual reset (Line recycle).
- *10. At 100/200VAC nominal output voltage and average output current.
- *11. Measured by the each measuring method of UL, CSA, EN and DENAN (at 60Hz).
- *12. Ratings - Derating at standard mounting.
- Load (%) is percent of maximum output power or average output current, whichever is greater.
- As for other mountings, refer to derating curve (A183-01-02_).
- *13. As for DENAN, designed to meet at 100VAC.

OUTPUT DERATING

A183-01-02

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

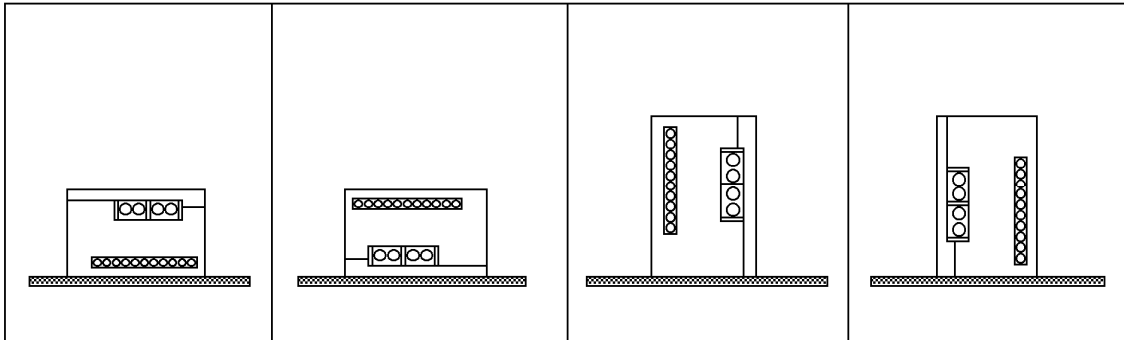


MOUNTING (STANDARD MOUNTING)

MOUNTING

MOUNTING

MOUNTING D



SPECIFICATIONS

A183-01-03A

ITEMS		MODEL	JWS480P-36
1	Nominal Output Voltage	-	36V
2	Average Output Current	-	13.3A
3	Peak Output Current	(*1) -	26.6A
4	Average Output Power	-	478.8W
5	Peak Output Power	(*1) -	957.6W
6	Efficiency (Typ)	(*2) -	80%
7	Input Voltage Range	(*3) -	85 - 265VAC (47 - 63Hz)
8	Input Current (100/200VAC)(Typ)	(*2) A	6.4/3.2
9	Inrush Current(Typ)	(*4) -	20A at 100VAC, 40A at 200VAC
10	PFHC	-	Designed to meet EN61000-3-2
11	Power Factor (100/200VAC)(Typ)	(*2) -	0.99/0.95
12	Output Voltage Range	V	32.4 - 43.2
13	Maximum Ripple & Noise (*5)	0 - +65°C	360mV
		-10 - 0°C	540mV
14	Maximum Line Regulation	(*6) -	144mV
15	Maximum Load Regulation	(*7) -	288mV
16	Temperature Coefficient	-	Less than 0.02%/°C
17	Over Current Protection	(*8) -	27.3A -
18	Over Voltage Protection	(*9) V	45.0 - 52.2
19	Hold-up Time (Typ)	(*10) -	20ms
20	Leakage Current	(*11) -	0.75mA MAX, 0.2mA(Typ) at 100VAC / 0.44mA(Typ) at 230VAC
21	Remote Sensing	-	Possible
22	Remote ON/OFF control	-	Possible
23	Monitoring Signal	-	PF (Open Collector Output)
24	Parallel Operation	-	—
25	Series Operation	-	Possible
26	Operating Temperature	(*12) -	-10 - +65°C (-10 - +50°C:100%, +60°C:70%,+65°C:55%)
27	Operating Humidity	-	30 - 90%RH (No dewdrop)
28	Storage Temperature	-	-30 - +85°C
29	Storage Humidity	-	10 - 95%RH (No dewdrop)
30	Cooling	-	Forced Air By Blower Fan
31	Withstand Voltage	-	Input - FG:2kVAC(20mA), Input - Output:3kVAC (20mA) Output - FG:500VAC(100mA), Output-CNT:100VAC(100mA) for 1min.
32	Isolation Resistance	-	More than 100MΩ Output - FG ... 500VDC More than 10MΩ Output - CNT ... 100VDC at 25°C and 70%RH
33	Vibration	-	At no operating, 10 - 55Hz (Sweep for 1min) 19.6 m/s ² Constant, X, Y, Z 1h each.
34	Shock (In package)	-	Less than 196.1 m/s ²
35	Safety	(*13) -	Approved by UL60950-1, CSA C22.2 No.60950 & EN60950-1. Designed to meet DENAN.
36	Conducted Emission	-	Designed to meet EN55011/EN55022-A, FCC-ClassA, VCCI-A.
37	Radiated Emission	-	Designed to meet EN55011/EN55022-A, FCC-ClassA, VCCI-A.
38	Weight (Typ.)	-	3000g
39	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.

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*1. Operating time at peak output is less than 10sec.(Duty<=0.5)

*2. At 100/200VAC, Ta=25°C and average output power.

*3. For cases where conformance to various safety specifications (UL, CSA, EN) are required, input voltage range will be 100 - 240VAC(50/60Hz).

*4. First in-rush current. Not applicable for the in-rush current to Noise Filter less than 0.2ms.

*5. Measure with JEITA RC-9131 probe, Bandwidth of scope :100MHz.

*6. 85 - 265VAC , constant load.

*7. No load - Average load, constant input voltage.

*8. Constant current limit with automatic recovery.

Peak current conditions more than 10 seconds, which will shut down output, manual reset(Line recycle).

*9. OVP circuit will shut down output, manual reset (Line recycle).

*10. At 100/200VAC nominal output voltage and average output current.

*11. Measured by the each measuring method of UL, CSA, EN and DENAN(at 60Hz).

*12. Ratings - Derating at standard mounting.

- Load (%) is percent of average output load (Item 2 and 4),
do not exceed derating in both Average output current and power.
- As for other mountings, refer to derating curve (A183-01-02_).

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