

HWS80A/ADIN

SPECIFICATIONS

A264-01-01/ADIN-C

ITEMS		MODEL	HWS80A-5/ADIN	HWS80A-12/ADIN	HWS80A-15/ADIN	HWS80A-24/ADIN	HWS80A-48/ADIN	
1	Nominal Output Voltage	V	5	12	15	24	48	
2	Maximum Output Current	A	16	6.7	5.4	3.4	1.7	
3	Maximum Output Power	W	80.0	80.4	81.0	81.6	81.6	
4	Efficiency (Typ.)	(*1) 100VAC	%	83	85	85	86	87
		200VAC	%	85	87	87	88	89
5	Input Voltage Range	(*2)	-					85 - 265VAC (47 - 63Hz) or 120 - 370VDC
6	Input Current (Typ.)	(*1)	-					1.04/0.52
7	Inrush Current (Typ.)	(*1)(*3)	-					14A at 100VAC, 28A at 200VAC, Ta=25°C, Cold Start
8	PFHC		-					Designed to meet IEC61000-3-2
9	Power Factor (Typ.)	(*1)	-					0.98/0.91
10	Output Voltage Range	V	4.0 - 6.0	9.6 - 14.4	12.0 - 18.0	19.2 - 28.8	38.4 - 52.8	
11	Maximum Ripple & Noise	0≤Ta≤70°C	mV	120	150	150	150	200
		(*4) -10≤Ta<0°C	mV	160	180	180	180	240
12	Maximum Line Regulation	(*5)	mV	20	48	60	96	192
13	Maximum Load Regulation	(*6)	mV	40	96	120	150	240
14	Temperature Coefficient		-					Less than 0.02% / °C
15	Over Current Protection	(*7)	A	16.8 ≤	7.04 ≤	5.67 ≤	3.57 ≤	1.79 ≤
16	Over Voltage Protection	(*8)	V	6.25 - 7.25	15.0 - 17.4	18.8 - 21.8	30.0 - 34.8	55.2 - 64.8
17	Hold-up Time (Typ.)	(*1)	-					20ms
18	Leakage Current	(*9)	-					Less than 0.5mA. 0.2mA (Typ) at 100VAC / 0.4mA (Typ) at 230VAC
19	Remote Sensing		-					Possible
20	Parallel Operation		-					-
21	Series Operation		-					Possible
22	Operating Temperature	(*10)	-					-10 to +70°C (-10 to +50°C:100%, +60°C:80%, +70°C:60%)
23	Operating Humidity		-					30 to 90%RH (No Condensing)
24	Storage Temperature		-					-30 to +85°C
25	Storage Humidity		-					10 to 95%RH (No Condensing)
26	Cooling		-					Convection Cooling
27	Withstand Voltage		-					Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA) Output - FG : 500VAC (20mA) 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) 9.8m/s ² Constant, X,Y,Z 1hour each.
30	Shock		-					Less than 147m/s ²
31	Safety		-					Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1, EN60950-1 (Expire date of 60950-1 : 20/12/2020) UL508, CSA C22.2 No.107.1-01. Designed to meet Den-an Appendix 8 at 100VAC only.
32	Line DIP		-					Designed to meet SEMI-F47 (200VAC Line only)
33	Conducted Emission	(*11)	-					Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B
34	Radiated Emission	(*11)	-					Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B
35	Immunity	(*11)	-					Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11
36	Weight (Typ)		-					740g
37	Size (W x H x D)	mm	-					47 x 113 x 196.8 (Refer to Outline Drawing)

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

=NOTES=

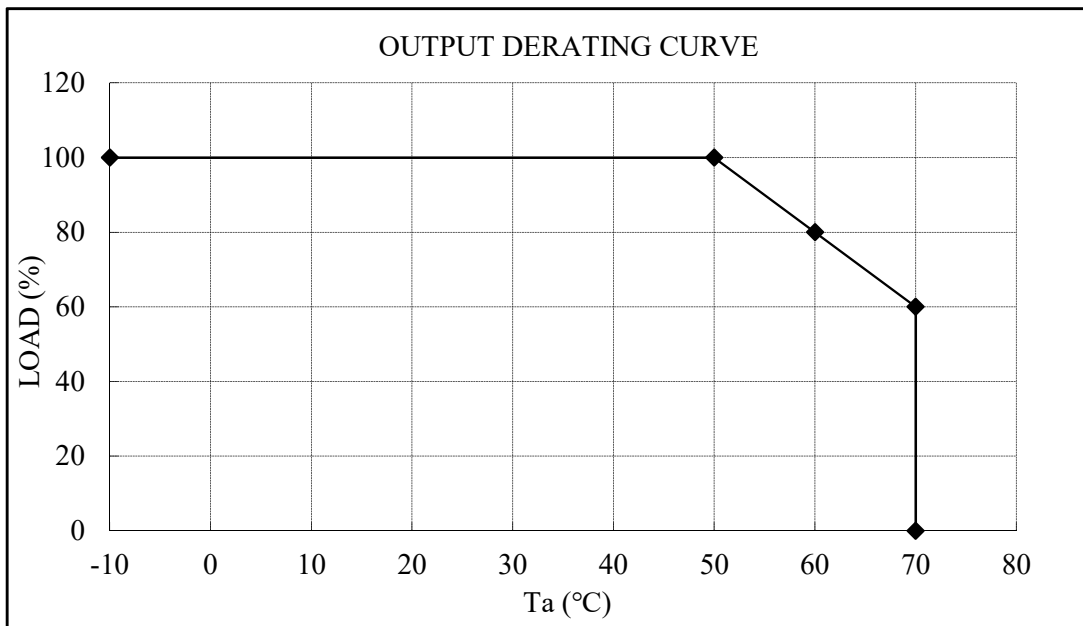
- *1. At 100VAC/200VAC, Ta=25°C, nominal output voltage and maximum output power.
- *2. For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 240VAC(50 - 60Hz).
- *3. Not applicable for the inrush current to Noise Filter for less than 0.2ms.
- *4. Measure with JEITA RC-9131B probe, Bandwidth of scope :100MHZ.
- *5. 85 - 265VAC, constant load.
- *6. No load-Full load, constant input voltage.
- *7. Constant current limit and Hiccup with automatic recovery.
Avoid to operate at over load or short circuit condition.
- *8. OVP circuit will shut down output, manual reset (Re power on).
- *9. Measured by the each measuring method of UL, CSA, EN and Den-an (at 60Hz), Ta=25°C.
- *10. Output Derating
 - Derating at standard mounting. Refer to OUTPUT DERATING CURVE (A264-01-02/ADIN-).
 - Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.
- *11. The power supply is considered a component which will be installed into a final equipment.
The final equipment should be re-evaluated that it meets EMC directives.

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OUTPUT DERATING

A264-01-02/ADIN

Ta (°C)	LOAD (%)
	STANDARD MOUNTING
-10 - +50	100
60	80
70	60



STANDARD MOUNTING

