A264-01-01/B-B

SPECIFICATIONS

MODEL				HWS80A	HWS80A	HWS80A	HWS80A	HWS80A	HWS80A
	ITEMS			-3/B	-5/B	-12/B	-15/B	-24/B	-48/B
1	Nominal Output Voltage		V	3.3	5	12	15	24	48
2	Maximum Output Current		A	15	15	6.7	5.4	3.4	1.7
3	Maximum Output Power		W	49.5	75.0	80.4	81.0	81.6	81.6
4	Efficiency (Typ.) (*1) 100\	AC	%	81	83	85	85	86	87
	200\	AC	%	83	85	87	87	88	89
5	Input Voltage Range	(*2)	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC					
6	1 ()1)	*1)	A	0.72/0.36 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		*1)	-	0.96/0.87 0.98/0.91					
10	Output Voltage Range		V	2.97 - 3.96	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 <tas< td=""><td></td><td>mV</td><td>150</td><td>150</td><td>150</td><td>150</td><td>150</td><td>200</td></tas<>		mV	150	150	150	150	150	200
	(*4) -10 <u>≤</u> Ta		mV	180	180	180	180	180	240
12			mV	20	20	48	60	96	192
13	Maximum Load Regulation	*6)	mV	40	40	96	120	150	240
14	Temperature Coefficient		-	Less than 0.02% / °C					
15		*7)	A	16.8 <u><</u>	16.8 <u><</u>	7.04 <u><</u>	5.67 <u><</u>	3.57 <u><</u>	1.79 <u><</u>
16	Over Voltage Protection	*8)	V	4.13 - 4.95	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		-	-					
20	Parallel Operation		-	-					
21	Series Operation		-	Possible					
22		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)					
				19.6m/s ² Constant, X,Y,Z 1hour each.					
30	Shock		-	Less than 196.1m/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)					
				Designed to meet Den-an Appendix 8 at 100VAC only.					
32	Line DIP		-	Designed to meet SEMI-F47 (200VAC Line only)					
33		11)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B					
34		11)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B					
35	3	11)	-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11					
36	Weight (Typ)		-	420g					
37	Size (W x H x D)	x D) mm 28.5 x 83 x 160.5 (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_).
 - 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.