HWS100A/B

A258-01-01/B-A

SPECIFICATIONS

	MODEI	_	HWS100A	HWS100A	HWS100A	HWS100A
ITEMS			-12/B	-15/B	-24/B	-48/B
1	Nominal Output Voltage	V	12	15	24	48
2	Maximum Output Current	А	8.5	7	4.5	2.1
3	Maximum Output Power	W	102.0	105.0	108.0	100.8
4	Efficiency (Typ.) (*1) 100VAC		86	86	87	88
	200VAC		88	88	89	90
5	Input Voltage Range (*2) -	85 - 265VAC (47 - 63Hz) or 120 - 370VDC			
6	Input Current (Typ.) (*1) A	1.3/0.65			
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) –	0.98/0.93			
10	Output Voltage Range	V	9.6 - 14.4	12.0 - 18.0	19.2 - 28.8	38.4 - 52.8
11	Maximum Ripple & Noise $0 \le Ta \le 70^{\circ}$	mV	150	150	150	200
	(*4) -10 <u>≤</u> Ta<0°C		180	180	180	240
12	Maximum Line Regulation (*5) mV	48	60	96	192
13	Maximum Load Regulation (*6) mV	96	120	150	240
14	Temperature Coefficient	-	Less than 0.02% / °C			
15	Over Current Protection (*7) A	8.92 <u><</u>	7.35 <u><</u>	4.72 <u><</u>	2.20 <u><</u>
16	Over Voltage Protection (*8) V	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	Operating Temperature (*10) -	-10 to +70°C (-10 to +50°C:100%, +60°C:65%, +70°C:30%)			
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 100M Ω 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	Conducted Emission (*11	<u></u>	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B			
34	Radiated Emission (*11	<u></u>	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)	-	420g			
37	Size (W x H x D)	mm	28 x 82 x 160 (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 (A258-01-02).
- 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.