HWS150A/ADIN

SPECIFICATIONS

A259-01-01/ADIN-D

	M	ODEL		HWS150A-	HWS150A-	HWS150A-	HWS150A-	HWS150A-
	ITEMS			5/ADIN	12/ADIN	15/ADIN	24/ADIN	48/ADIN
1	Nominal Output Voltage		V	5	12	15	24	48
2	Maximum Output Current		Α	30	13	10	6.5	3.3
3	Maximum Output Power		W	150.0	156.0	150.0	156.0	158.4
4	Efficiency (Typ.) (*1) 10	0VAC	%	85	85	86	88	89
		0VAC	%	87	88	89	90	91
5	Input Voltage Range (*	*2)(*3)	-		85 - 265VAC	(47 - 63Hz) or 1	20 - 370VDC	
6	Input Current (Typ.)	(*1)	Α	1.9/0.95				
7	Inrush Current (Typ.) (*	*1)(*4)	-	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	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<1	Γa <u>≤</u> 70°C	mV	120	150	150	150	200
	(*5) -10	≤Ta<0°C	mV	160	180	180	180	240
12	Maximum Line Regulation	(*6)	mV	20	48	60	96	192
13	Maximum Load Regulation	(*7)	mV	40	96	120	150	240
14	Temperature Coefficient		-	Less than 0.02% / °C				
15	Over Current Protection	(*8)	A	31.5 <u>≤</u>	13.6 ≤	10.5 ≤	6.82 <u><</u>	3.46 <u><</u>
16	Over Voltage Protection	(*9)	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	(*10)	-	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	(*11)	-	-10 to +70°C (-10 to +50°C:100%, +60°C:60%, +70°C:20%)				
23	Operating Humidity		-		30 to 9	0%RH (No Cond	ensing)	
24	Storage Temperature		-	-30 to +85°C				
25	Storage Humidity		-	10 to 95%RH (No Condensing)				
26	Cooling		-	Convection Cooling				
27	Withstand Voltage		-	Input		20mA), Input - Ot		0mA)
						G: 500VAC (20m		
28	Isolation Resistance		-	More than $100M\Omega$ at 25°C and $70\%RH$ Output - FG : $500VDC$				
29	Vibration		-	At no operating, 10 - 55Hz (Sweep for 1min)				
						onstant, X,Y,Z 11		
30	Shock		-	Less than 147m/s ² Approved by UL/CSA/EN62368-1, EN62477-1 (OVCIII)(24V only), UL/CSA60950-1,				
31	Safety		-					
						0-1 : 20/12/2020),		
				D		Den-an Appendix		y.
32	Line DIP		-			et SEMI-F47 (200		
33	Conducted Emission	(*12)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B				
34	Radiated Emission	(*12)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11				
35	Immunity	(*12)	-	Designed	to meet IEC6100		00-4-2, -3, -4, -5,	-6, -8, -11
36	Weight (Typ) - 790g							
			mm			.8 (Refer to Ou	tline Drawing)	
37								

*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. Output derating needed when input voltage less than 90VAC. Refer to OUTPUT DERATING CURVE (A259-01-02/ADIN-).
- *4. Not applicable for the inrush current to Noise Filter for less than 0.2ms.
- *5. Measure with JEITA RC-9131B probe, Bandwidth of scope :100MHz.
- *6. 85 265VAC, constant load.
- *7. No load-Full load, constant input voltage.
- *8. Constant current limit and Hiccup with automatic recovery.
 - Avoid to operate at over load or short circuit condition.
- *9. OVP circuit will shut down output, manual reset (Re power on).
- *10. Measured by the each measuring method of UL, CSA, EN and Den-an (at 60Hz), Ta=25°C.
- *11. Output Derating
 - Derating at standard mounting. Refer to OUTPUT DERATING CURVE (A259-01-02/ADIN-_).
 - Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.
- *12. The power supply is considered a component which will be installed into a final equipment.

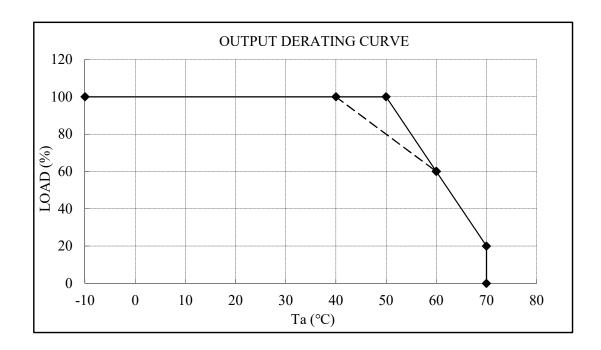
The final equipment should be re-evaluated that it meets EMC directives.

OUTPUT DERATING

A259-01-02/ADIN

Ta (°C)	LOAD (%)
1a (C)	STANDARD MOUNTING
-10 - +50	100
60	60
70	20

^{*}Refer to dotted line for output derating curve, when input voltage range is " $85 \le Vin < 90$ ".



STANDARD MOUNTING

