HWS50A/ADIN

SPECIFICATIONS

A257-01-01/ADIN-C

MODEL				HWS50A-	HWS50A-	HWS50A-	HWS50A-	HWS50A-	
	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		A	10	4.3	3.5	2.2	1.1	
3	Maximum Output Power		W	50.0	51.6	52.5	52.8	52.8	
4	Efficiency (Typ.) (*1)	100VAC	%	82	83	83	84	84	
		200VAC	%	84	85	86	87	86	
5	Input Voltage Range (*2) -			85 - 265VAC (47 - 63Hz) or 120 - 370VDC					
6	Input Current (Typ.)	(*1)	A	0.65/0.35					
7	Inrush Current (Typ.)	(*1)(*3)	-	14	14A at 100VAC, 28A at 200VAC, Ta=25°C, Cold Start				
8	PFHC -			Designed to meet IEC61000-3-2					
9	Power Factor (Typ.)	(*1)	-		06.111	0.97/0.91	10000		
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 <u>≤</u> Ta <u>≤</u> 70°C	mV	120	150	150	150	200	
12		-10 <u><</u> 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	(d. =)	-	10.5		ess than 0.02% / 9		1.15	
15	Over Current Protection	(*7)	A	10.5 <	4.51 <u><</u>	3.67 <u><</u>	2.31 <	1.15 <u><</u>	
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 Less than 0.5mA. 0.2mA (Typ) at 100VAC / 0.4mA (Typ) at 230VAC					
18	Leakage Current	(*9)	-	Less than	0.5mA. 0.2mA	Typ) at 100VAC	/ 0.4mA (Typ) at	230VAC	
19	Remote Sensing		-			-			
20	Parallel Operation		-	- The state of the					
21	Series Operation	(4.4.0)	-	Possible					
22	Operating Temperature	(*10)	-	-10 to +70°C (-10 to +50°C:100%, +60°C:60%, +70°C:20%) 30 to 90%RH (No Condensing)					
23	Operating Humidity		-		30 to 9		ensing)		
24	Storage Temperature		-	-30 to +85°C					
25	Storage Humidity		-	10 to 95%RH (No Condensing)					
26	Cooling		-			Convection Coolin			
27	Withstand Voltage		-	Input		20mA), Input - Ou		0mA)	
20	T. Lat. D. Ca					G: 500VAC (20m		AT ID G	
28	Isolation Resistance		-	More than 100MΩ at 25°C and 70%RH Output - FG: 500VDC At no operating, 10 - 55Hz (Sweep for 1min)					
29	Vibration		-						
20	C11-					onstant, X,Y,Z 11			
30	Shock		-	A 11 T		Less than 147m/s		CCA (0050 1	
31	Safety		_			62368-1, EN6236			
			-			0-1:20/12/2020)			
22	Lin- DID			D		Den-an Appendix		у.	
32	Line DIP	(±1.1\	-	Designed to meet SEMI-F47 (200VAC Line only)					
33	Conducted Emission	(*11)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B					
34	Radiated Emission	(*11)	-						
	Immunity	(*11)	-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11					
36	Weight (Typ.)		-		42 112 - 15	520g	line Durania a V		
	37 Size (W x H x D) mm 42 x 113 x 159.8 (Refer to Outline Drawing) *Read instruction manual carefully, before using the power supply unit								

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=NOTES=

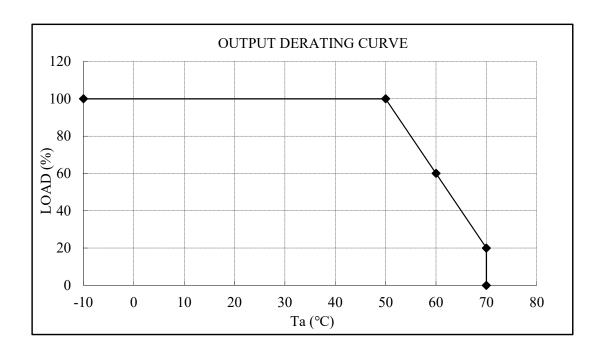
- *1. At 100VAC/200VAC, Ta=25°C, nominal output voltage and maximum output power.
- *2. For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 240VAC(50 60Hz).
- *3. Not applicable for the inrush current to Noise Filter for less than 0.2ms.
- *4. Measure with JEITA RC-9131B probe, Bandwidth of scope :100MHz.
- *5. 85 265VAC, constant load.
- *6. No load-Full load, constant input voltage.
- *7. 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 (A257-01-02/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.

OUTPUT DERATING

A257-01-02/ADIN

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



STANDARD MOUNTING

