HWS100A/ADIN

TDK-Lambda

SPECIFICATIONS

	A258-01-01/ADIN-C							
		MODEL		HWS100A-	HWS100A-	HWS100A-	HWS100A-	HWS100A-
	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	20	8.5	7	4.5	2.1
3	Maximum Output Power		W	100.0	102.0	105.0	108.0	100.8
4	Efficiency (Typ.) (*1)	100VAC	%	84	86	86	87	88
		200VAC	%	86	88	88	89	90
5	Input Voltage Range	(*2)(*3)	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC				
6	Input Current (Typ.)	(*1)	Α	1.3/0.65				
7					art			
8	PFHC -			Designed to meet IEC61000-3-2				
9	Power Factor (Typ.)	(*1)	-	10.00	0 6 14 4	0.98/0.93	10.0.000	a a 4 fa a
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
10	(*5)	_	mV	160	180	180	180	240
12	Maximum Line Regulation	(*6)	mV	20	48	60 120	96	192
13	Maximum Load Regulation	(*7)	mV	40			150	240
14 15	Temperature Coefficient Over Current Protection	(*8)	-	21.0 <u><</u>		ess than 0.02% / $^{\circ}$ $7.35 \leq$	4.72 <u>≤</u>	2.20 <u><</u>
15	Over Voltage Protection	(*8)	A V	6.25 - 7.25	8.92 <u><</u> 15.0 - 17.4	<u> </u>	<u>4.72 </u> 30.0 - 34.8	<u> </u>
10	Hold-up Time (Typ.)	(*9)	v	0.23 - 7.23	13.0 - 17.4	20ms	30.0 - 34.8	33.2 - 04.8
17	Leakage Current	(*1)	-	20ms Less than 0.5mA. 0.2mA (Typ) at 100VAC / 0.4mA (Typ) at 230VAC				
19	Remote Sensing	(*10)	-	Possible				
20	Parallel Operation		-			-		
20	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	(11)	-	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 - FO	G: 500VAC (20m	nA) for 1min	-
28	Isolation Resistance		-	More than 100M Ω at 25°C and 70%RH Output - FG : 500VDC				
29	Vibration		-		At no operatir	ng, 10 - 55Hz (Sw	eep for 1min)	
						Constant, X,Y,Z 11		
30	Shock		-			Less than 147m/s		
31	Safety		-			62368-1, EN6236		
						0-1:20/12/2020)		
				Ľ		Den-an Appendix		у.
32	Line DIP		-	Designed to meet SEMI-F47 (200VAC Line only)				
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				
35	Immunity	(*12)	-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11				
36	Weight (Typ)		-		47 110 10	740g	1. D	
37	Size (W x H x D)		mm			6.8 (Refer to Out	line 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. Output derating needed when input voltage less than 90VAC. Refer to OUTPUT DERATING CURVE (A258-01-02/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 (A258-01-02/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.

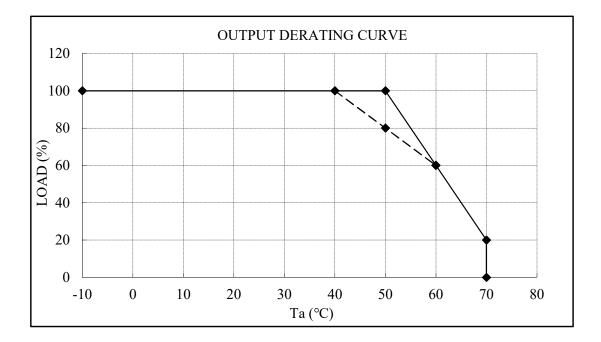
HWS100A/ADIN

OUTPUT DERATING

A258-01-02/ADIN

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

*Refer to dotted line for output derating curve, when input voltage range is "85<u></u>Vin<90".



STANDARD MOUNTING

