HWS30A/ADIN

TDK-Lambda

SPECIFICATIONS

	A256-01-01/ADIN-C							
		MODEL		HWS30A-	HWS30A-	HWS30A-	HWS30A-	HWS30A-
	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	6	2.5	2	1.3	0.65
3	Maximum Output Power		W	30.0	30.0	30.0	31.2	31.2
4	Efficiency (Typ.) (*1)	100VAC	%	80	84	85	86	86
		200VAC	%	82	86	87	88	87
5	Input Voltage Range	(*2)	-		85 - 265VAC	C (47 - 63Hz) or 1	20 - 370VDC	
6	Input Current (Typ.)	(*1)	Α	0.65/0.4				
7	Inrush Current (Typ.)	(*1)(*3)	-	14		8A at 200VAC, T		art
8	PFHC		-	Designed to meet IEC61000-3-2				
9	Output Voltage Range		V	4.0 - 6.0	9.6 - 14.4	12.0 - 18.0	19.2 - 28.8	38.4 - 52.8
10	Maximum Ripple & Noise	0 <u>≤</u> Ta <u>≤</u> 70°C	mV	120	150	150	150	200
		-10 <u><</u> Ta<0°C	mV	160	180	180	180	240
11	Maximum Line Regulation	(*5)	mV	20	48	60	96	192
12	Maximum Load Regulation	(*6)	mV	40	96	120	150	240
13	Temperature Coefficient		-	Less than 0.02% / °C				
14	Over Current Protection	(*7)	Α	6.3 <u><</u>	2.62 <u>≤</u>	2.1 <u><</u>	1.36 <u><</u>	$0.68 \le$
15	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
16	Hold-up Time (Typ.)	(*1)	-	20ms				
17	Leakage Current	(*9)	-	Less than 0.5mA. 0.2mA (Typ) at 100VAC / 0.4mA (Typ) at 230VAC				
18	Remote Sensing		-	-				
19	Parallel Operation		-	-				
20	Series Operation		-	Possible				
21	Operating Temperature	(*10)	-	-10 to +70°C (-10 to +50°C:100%, +60°C:60%, +70°C:40%)				
22	Operating Humidity		-	30 to 90%RH (No Condensing)				
23	Storage Temperature		-	-30 to +85°C				
24	Storage Humidity		-	10 to 95%RH (No Condensing)				
25	Cooling		-	Convection Cooling Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA)				
26	Withstand Voltage		-	Input				0mA)
						G: 500VAC (20n		
27	Isolation Resistance		-	More than 100MΩ at 25°C and 70%RH Output - FG : 500VDC				
28	Vibration		-			ng, 10 - 55Hz (Sw		
						Constant, X,Y,Z 1		
29	Shock		-	Less than 147m/s ²				
30	Safety			Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1, EN60950-1 (Expire date of 60950-1 : 20/12/2020) UL508, CSA C22.2 No.107.1-01.				
			-					
				D		Den-an Appendix		y.
31	Line DIP		-	Designed to meet SEMI-F47 (200VAC Line only)				
32	Conducted Emission	(*11)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B				
33	Radiated Emission	(*11)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B				
34	Immunity	(*11)	-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11				
35	Weight (Typ.)		-			440g		
36	Size (W x H x D)		mm		42 x 113 x 12	8.8 (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. 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. For start up at low ambient temperature and low input voltage, output ripple noise might not meet specification. However, specification can be met after one second.

- *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 (A256-01-02/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.

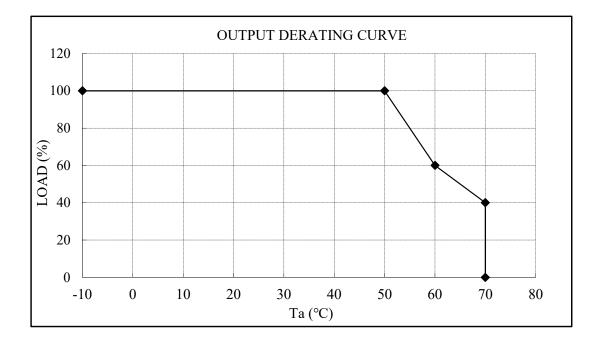
TDK-Lambda

HWS30A/ADIN

OUTPUT DERATING

A256-01-02/ADIN

Ta (°C)	LOAD (%)				
	STANDARD MOUNTING				
-10 - +50	100				
60	60				
70	40				



STANDARD MOUNTING

