HWS30

SPECIFICATIONS

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A225-01-01C MODEL				HWS30	HWS30	HWS30	HWS30	HWS30	HWS30	
ITEMS				-3	-5	-12	-15	-24	-48	
	1 Nominal Output Voltage			3.3	5	12	15	24	48	
2	Maximum Output Current		V A	6	6	2.5	2	1.3	0.65	
3	Maximum Output Current Maximum Output Power		W	20	30	30	30	31.2	31.2	
4	Efficiency (Typ) (*1)	100VAC	vv %	70	77	81	81	83	82	
4	Efficiency (Typ) (T)	200VAC	70 %	70	80	83	83	86	82	
5	Input Voltage Range	(*2)	70	75					65	
6				85 - 265VAC (47 - 63Hz) or 120 - 370VDC 0.6/0.3 0.8/0.4						
7	Inrush Current(Typ)	A -	14A at 100VAC, 28A at 200VAC, Ta=25°C, Cold Start							
8	Inrush Current(Typ) (*3) PFHC			Designed to meet IEC61000-3-2						
9	Output Voltage Range		- V	2.97-3.96	4.0-6.0	9.6-14.4	12.0-18.0	19.2-28.8	38.4-52.8	
	Maximum Ripple & Noise	0≤Ta≤70°C		120	120	150	12.0-10.0	200	200	
10		<u>-10≤</u> Ta≤ 0°C		120	120	130	130	240	240	
11	Maximum Line Regulation	(*5)		20	20	48	60	96	192	
12	Maximum Load Regulation	(*5)		40	40	96	120	192	384	
13	Maximum Load Regulation(*0) mV404090120192584Temperature Coefficient-Less than 0.02% / °C							504		
	Over Current Protection	(*7)	Ā	6.3 <u><</u>	6.3 <u><</u>	2.62 <u><</u>	$2.1 \le$	1.36 <u><</u>	0.68 <u><</u>	
15	Over Voltage Protection	(*8)	V	4.13-4.95	6.25-7.25	15.0-17.4	18.8-21.8	<u>30.0-34.8</u>	<u>55.2-64.8</u>	
16		(*9)	-	4.15 4.95	0.23 7.23			50.0 54.0	55.2 04.0	
	Leakage Current	(*10)	-	20ms Less than 0.5mA. 0.2mA(Typ) at 100VAC / 0.4mA(Typ) at 230VAC						
18	Remote Sensing	(10)	-							
			_							
20	Series Operation		-	Possible						
21	Operating Temperature	(*11)	-	-10 to +70°C (-10 to +50°C:100%,+60°C:60%,+70°C:20%)						
22	Derating Humidity - 30 to 90%RH (No dewdrop)							,,,,,,		
23	Storage Temperature		-30 to +85°C							
24						10 to 95% RH (No dewdrop)				
25	Cooling		Convection Cooling							
26	Withstand Voltage		-	Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA)						
		Output - FG : 500VAC (100mA) for 1 min						,		
27	Isolation Resistance	- More than $100M\Omega$ at 25°C and 70%RH Output - FG : 500VDC								
28	Vibration		-	At no operating, 10 - 55Hz (Sweep for 1min)						
	19.6m/s ² Constant, X,Y,Z 1hour each.									
29	Shock (In package)		-	Less than 196.1m/s ²						
30	Safety	(*12)	-	Approved by UL60950-1, CSA60950-1, EN60950-1, EN50178						
	-	()		Designed to meet DENAN						
31	Line DIP		-	Designed to meet SEMI-F47 (200VAC Line only)						
32	Conducted Emission		-	Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B						
33	Radiated Emission		-	Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B						
34	Immunity	- Designed to meet IEC61000-4-2(Level 2,3), -3(Level 3), -4(Level 3),								
				-5(Level 3,4), -6(Level 3), -8(Level 4), -11						
35	Weight(Typ.)		-	220g						
	Size (W x H x D)		mm		26.5 x 82	2 x 95 (Refe	r to Outline D	Drawing)		
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*Read instruction manual carefully, before using the power supply unit. =NOTES=

- *1. At 100/200VAC, Ta=25°C 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 in-rush current to Noise Filter for less than 0.2ms.

*4. Measure with JEITA RC-9131A probe, Bandwidth of scope :100MHz. For start up at low ambient temperature and low input voltage, output ripple noise might not meet specification. However, there is no overshoot at start up and output ripple noise specification can be met after one second.

- *5. 85 265VAC , constant load.
- *6. No load-Full load, constant input voltage.
- *7. Foldback current limit with automatic recovery. Not operate at over load or dead short condition for more than 30seconds.
- *8. OVP circuit will shutdown output, manual reset (Re power on).
- *9. At 100/200VAC, Ta=25°C, nominal output voltage and maximum output current.

*10. Measured by the each measuring method of UL,CSA,EN and DENAN(at 60Hz).

- *11. Ratings Derating at standard mounting.
 - Load (%) is percent of maximum output power or maximum output current, whichever is greater.
 - As for other mountings, refer to derating curve (A225-01-02_).
- *12. As for DENAN, designed to meet at 100VAC.

TDK-Lambda

HWS30



OUTPUT DERATING

