TDK-Lambda

HWS300

SPECIFICATIONS

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A231-01-01E				LULIC 200	LULICO00	INVIGADO	LUL GOOD	LULICO O O	THE GOOD	
MODEL				HWS300	HWS300	HWS300	HWS300	HWS300	HWS300	
ITEMS				-3	-5	-12	-15	-24	-48	
1			V	3.3	5	12	15	24	48	
2	4	(*13)		60	60	27	22	14(16.5)	7	
3	Maximum Output Power		W	198	300	324	330	336	336	
4	Efficiency (Typ) (*1)	100VAC	%	74	79	80	80	82	82	
		200VAC	%	77	82	83	83	85	85	
5				85 - 265VAC (47 - 63Hz) or 120 - 330VDC						
6	6 Input Current (100/200VAC)(Typ) (*1)			2.7/1.4 3.8/1.9 4.1/2.1						
7	7 Inrush Current(Typ) (*3)			20A at 100VAC, 40A at 200VAC						
8	8 PFHC			Designed to meet IEC61000-3-2						
9				0.99/0.95						
10	Output Voltage Range		V	2.64 - 3.96	4.0 - 6.0		12.0 - 18.0	19.2 - 28.8	38.4 - 52.8	
11	Maximum Ripple & Noise	0 <u>≺</u> Ta <u>≺</u> 70°C		120	120	150	150	150	350	
		-10 <u><</u> Ta<0°C	mV	120	120	200	200	200	400	
12	Maximum Line Regulation	(*5)		20	20	48	60	<u>200</u> 96	192	
	Maximum Load Regulation	(*5)		30	30	72	90	144	288	
14	Temperature Coefficient	(*0)	- III V	50	50	· -	0.02% / °C	144	200	
14	Over Current Protection	(*7)	Ā	63 <	63 <u><</u>	28.4 <u><</u>	23.1 <	16.7 <	7.4 <	
	Over Voltage Protection				6.25 - 7.25	$20.4 \le$	<u>23.1 <</u> 18.8 - 21.8			
-		(*8)	V	4.13 - 4.95	0.25 - 7.25			30.0 - 34.8	55.2 - 64.8	
17	Hold-up Time (Typ)(*9)20msLeakage Current(*10)Less than 0.75mA.0.2mA(Typ) at 100VAC / 0.44mA(Typ) at 230VAC								+ 220VIAC	
18	Leakage Current	Less than 0.75mA. 0.2mA(Typ) at 100VAC / 0.44mA(Typ) at 230VAC								
19 Remote Sensing				Possible						
	Remote ON/OFF control		Possible							
	Monitoring Signal	nitoring Signal - PF(Open Collector Output)								
22			-	Possible						
23	Series Operation									
	Operating Temperature (*11) -10 to +70°C (-10 to +50°C:100%,+70°C:50%)									
25	5 Operating Humidity - 10 to 90% RH (No dewdrop)									
26	Storage Temperature	-30 to +85°C								
27	7 Storage Humidity			10 to 95%RH (No dewdrop)						
28	Cooling			Forced Air By Blower Fan						
29				Input - FG : 2.5kVAC (20mA), Input - Output : 3kVAC (20mA)						
					6: 500VAC (100mA), Out	put-CNT: 10	0VAC(100m		
30	Isolation Resistance		-		More the	an 100MΩ O	utput - FG : :	500VDC		
2.0			More than $10M\Omega$ Output -CNT : 100VDC at 25°C and 70%RH							
31	31 Vibration - At no operation						ating, 10 - 55Hz (Sweep for 1min)			
51										
32	Shock (In package) -			19.6m/s ² Constant, X,Y,Z 1hour each. Less than 196.1m/s ²						
33				Approved by UL60950-1, CSA60950-1, EN60950-1, EN50178,						
55	UL508(24V model only), CSA C22.2 No.14-M95(24V model only)									
	Designed to meet DENAN							.ci oniy).		
21	Line DIP		-	Designed to meet SEMI-F47 (200VAC Line only)						
35			-							
	Conducted Emission - Designed to meet EN53011/EN33022-B, FCC-B, VCCI-B Radiated Emission - Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B									
				Designed to meet EIC51000-4-2(Level 2,3), -3(Level 3), -4(Level 3),						
37	minumity		-	Designed					Level 5),	
20	Wai-14(True)				-5(Level		el 3), -8(Leve	214), -11		
38						1.0kg				
39	Size (W x H x D) 61 x 82 x 165 (Refer to Outline Drawing)									

*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 inrush current to Noise Filter for less than 0.2ms.
- *4. Measure with JEITA RC-9131A probe, Bandwidth of scope :100MHz.
- *5. 85 265VAC, constant load.
- *6. No load-Full load, constant input voltage.
- *7. 3.3, 5V model: Constant current limit and hiccup with automatic recovery.
 12 48V model: Constant current limit with automatic recovery.
- Avoid to operate at over load or short circuit condition for more than 30seconds.
- *8. OVP circuit will shut the output down, manual reset (CNT reset or Re power on).
- *9. At 100/200VAC , nominal output voltage and maximum output current.
- *10. Measured by the each measuring method of UL,CSA,EN and DENAN(at 60Hz), Ta=25°C.
- *11. Ratings Derating at standard mounting. Refer to output derating curve.(A231-01-02_)
- Load (%) is percent of maximum output power or maximum output current, whichever is greater. *12. As for DENAN, designed to meet at 100VAC.
- *13 ():Peak output current at 200VAC.Operaing time at peak output is less than 10sec,duty is less than 35%.

HWS300



OUTPUT DERATING

