DENSEI-LAMBDA

A231-01-01D

SPECIFICATIONS

A231-01-01D										
MODEL				HWS300	HWS300	HWS300	HWS300	HWS300	HWS300	
ITEMS				-3	-5	-12	-15	-24	-48	
	Nominal Output Voltage		V	3.3	5	12	15	24	48	
	Maximum Output Current	(*13)	Α	60	60	27	22	14(16.5)	7	
	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	
	Input Voltage Range (*2)			85 - 265VAC (47 - 63Hz) or 120 - 330VDC						
	Input Current (100/200VAC)(Typ) (*1)			2.7/1.4 3.8/1.9 4.1/2.1						
	Inrush Current(Typ) (*3)			20A at 100VAC, 40A at 200VAC						
8				Designed to meet IEC61000-3-2						
9	Power Factor (100/200VAC)(Typ) (*1)			0.99/0.95						
	Output Voltage Range		V	2.64 - 3.96	4.0 - 6.0		12.0 - 18.0	19.2 - 28.8		
11	Maximum Ripple & Noise	0 <u>≺</u> Ta <u>≺</u> 70°C	mV	120	120	150	150	150	350	
		-10 <u><</u> Ta<0°C		180	180	200	200	200	400	
	Maximum Line Regulation	(*5)		20	20	48	60	96	192	
	Maximum Load Regulation	(*6)	mV	30	30	72	90	144	288	
	Temperature Coefficient		-				0.02% / °C			
	Over Current Protection	(*7)	Α	63 -	63 -	28.4 -	23.1 -	16.7 -	7.4 -	
	Over Voltage Protection	(*8)	V	4.13 - 4.95	6.25 - 7.25	15.0 - 17.4	18.8 - 21.8	30.0 - 34.8	55.2 - 64.8	
	Hold-up Time (Typ)									
	Leakage Current	(*10)	-	Less than	0.75mA. 0.2	mA(Typ) at		44mA(Typ) a	t 230VAC	
	19 Remote Sensing			Possible						
	Remote ON/OFF control		-	Possible						
	Monitoring Signal		-	PF(Open Collector Output)						
	Parallel Operation		-	Possible						
	Series Operation		-	Possible						
	Operating Temperature	(*11)	-		-10 - +70°C (-10 - +50°C:100%,+70°C:50%)					
	Operating Humidity		-	10 - 90%RH (No dewdrop)						
	Storage Temperature		-	-30 - +85°C						
	Storage Humidity		-	10 - 95%RH (No dewdrop)						
28			-	Forced Air By Blower Fan						
29	Withstand Voltage		-	Input - FG : 2.5kVAC (20mA), Input - Output : 3kVAC (20mA)						
				Output - FG: 500VAC (100mA), Output-CNT: 100VAC(100mA) for 1min						
30	Isolation Resistance		-	More than 100MΩ Output - FG : 500VDC More than 10MΩ Output -CNT : 100VDC at 25°C and 70%RH						
				More					0%RH	
31	Vibration		-			rating, 10 - 5				
					19.6m	/s ² Constant,		r each.		
32	Shock (In package)		-	Less than 196.1m/s ²						
33 Safety (*12)			-	Approved by UL60950-1, CSA60950-1, EN60950-1, EN50178,						
				UL508(24V model only). Designed to meet DENAN						
	Line DIP		-	Designed to meet SEMI-F47 (200VAC Line only)						
35	Conducted Emission		-	Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B						
_	Radiated Emission		-	Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B Designed to meet IEC61000-4-2(Level 2,3), -3(Level 3), -4(Level 3),						
37	Immunity		-	Designed					Level 3),	
					-5(Level	3,4), -6(Lev		el 4), -11		
	Weight(Typ.)		-	1.0kg 61 x 82 x 165 (Refer to Outline Drawing)						
- 39	Size (W x H x D)		mm		61 x 82 :	x 165 (Refer	to Outline D	rawing)		

*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%.

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