HWS600

SPECIFICATIONS

A232-01-01E

MODEL				HWS600	HWS600	HWS600	HWS600	HWS600	HWS600	
ITEMS				-3	-5	-12	-15	-24	-48	
1				3.3	5	12	15	24	48	
2				120	120	53	43	27(31)	13	
	Maximum Output Power		W	396	600	636	645	648	624	
4	Efficiency (Typ) (*1)	100VAC	%	75	80	80	81	82	83	
		200VAC	%	78	83	83	84	85	86	
	Input Voltage Range	(*2)	-			VAC (47 - 63				
6	Input Current (100/200VAC)(Typ) (*1)		Α	5.4/2.6 7.5/3.6 8.1/3.9						
7	Inrush Current(Typ) (*3)		-	20A at 100VAC, 40A at 200VAC						
8			-	Designed to meet IEC61000-3-2						
9	()			0.99/0.95						
10	Output Voltage Range		V	2.64 - 3.96	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	120	150	150	150	350	
	(*4)	-10 <u><</u> Ta<0°C		180	180	200	200	200	400	
12	Maximum Line Regulation	(*5)		20	20	48	60	96	192	
	Maximum Load Regulation	(*6)	mV -	30	30	72	90	144	288	
14	Temperature Coefficient	Temperature Coefficient		Less than 0.02% / °C						
	Over Current Protection	(*7)	Α	126 <u><</u>	126 <u><</u>	55.7 <u><</u>	45.2 <u><</u>	31.4 <u><</u>	13.7 <u><</u>	
	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)	(*9)	-	20ms						
	Leakage Current (*10) Remote Sensing			Less than 0.75mA. 0.2mA(Typ) at 100VAC / 0.44mA(Typ) at 230VAC						
	19 Remote Sensing			Possible						
	20 Remote ON/OFF control			Possible						
			-	PF(Open Collector Output)						
	Parallel Operation		-	Possible						
	Series Operation		-		Possible Toog (40)					
	Operating Temperature (*11)		-	-10 to +70°C (-10 to +50°C:100%, +70°C:50%)						
25	Operating Humidity		-	10 to 90%RH (No dewdrop)						
	Storage Temperature		-	-30 to +85°C						
27	Storage Humidity		-	10 to 95%RH (No dewdrop)						
28			-	Forced Air By Blower Fan						
29	Withstand Voltage		-	Input - FG: 2.5kVAC (20mA), Input - Output: 3kVAC (20mA)						
- 20	lei Dii			Output - FG : 500VAC (100mA), Output - CNT : 100VAC (100mA) for 1min						
30	Isolation Resistance		-	1.5	More than 100MΩ Output - FG : 500VDC					
- 21	Vibration			More than 10MΩ Output - CNT : 100VDC at 25°C and 70%RH At no operating, 10 - 55Hz (Sweep for 1min)						
31	VIDIALION		-							
32	Shock (In package)				19.61	m/s ² Constant,	X,Y,Z Ihour	each.		
		(±12)	-	Less than 196.1m/s ² Approved by UL60950-1, CSA60950-1, EN60950-1, EN50178,						
33	33 Safety (*12) -			UL508(24V model only), CSA C22.2 No.14-M95(24V model only).						
				OL308(.				173(24 V 1110U	ci omy).	
34	Line DIP			Designed to meet DENAN Designed to meet SEMI-F47 (200VAC Line only)						
35	Line DIP - Conducted Emission -			Designed to meet SEMI-F47 (200 VAC Line only) Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B						
36	Radiated Emission -		Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B							
37				Designed to meet IEC61000-4-2(Level 2,3), -3(Level 3), -4(Level 3),						
3/	miniumty		-	Design		c61000-4-2(L el 3,4), -6(Lev			vei 3),	
38	Weight(Typ.)		_		-3(Leve		ei 3), -8(Levei 6kg	1+), -11		
39	Size (W x H x D)				100 v 8′	2 x 165 (Refe	0	rawing)		
39	SIZE (W X II X D)		mm		100 X 8.	2 x 105 (Kele	to Outilie D	iawilig)		

^{*} 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. Inrush Current is 30A(Typ) when PFHC start-up.
- *4. Measure with JEITA RC-9131A probe, Bandwidth of scope :100MHz.
- *5. 85 265VAC, constant load.
- *6. No load Full load, constant input voltage.
- $*7.\,$ 3V and 5V model: Constant current limit and hiccup with automatic recovery.
 - 12 $48\mbox{\ensuremath{V}}$ 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).
- $\$9. \ \ At \ 100/200 VAC,$ 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.(A232-01-02_)
 - 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%.

OUTPUT DERATING

A232-01-02

	LOAD(%)			
Ta(°C)	MOUNTING A	MOUNTING B		
-10 to +50	100			
70	50			



