HWS1000/ME

DA032-01-01/ME-B

SPECIFICATIONS

MODEL			HWS1000	HWS1000	HWS1000					
ITEMS			-24/ME	-36/ME	-48/ME					
1	Nominal Output Voltage	1	V 24	36	48					
2	Maximum Output Current		A 46	30.7	23					
3	Peak output Current (*13) at 200VA	AC A	A 58.5	39	29.2					
4	Maximum Output Power	7	W 1104	1104	1104					
5	Peak Output Power (*13) at 200V	C V	V 1404	1404	1404					
	at 100V	-+	6 85	85	86					
6	Efficiency (Typ) (*1) at 200VA		6 87	88	88					
7		2)	-	85 - 265VAC (47 - 63Hz) or 120 - 330VDC						
8	Input Current (100/200VAC)(Typ) (*	1) .	A	13.5/7.0						
9	Inrush Current (100/200VAC)(Typ) (*	3)	A	20/40						
	PFHC	-	Built to meet IEC61000-3-2							
	Voltage Fluctuations / Flicker Emission	ıs	_	Built to meet IEC61000-3-3						
	Power Factor (100/200VAC)(Typ) (*	_	_	0.98/0.95						
	Output Voltage Range		V 19.2-28.8	28.8-43.2	38.4-52.8					
	Maximum Ripple & Noise 0 - +71	°C n		200	200					
14	(*4) -10 - 0	_		240	500					
15	` '	5) n		144	192					
_		6) n		150	300					
_	Temperature Coefficient	0) 11	-		l	than 0.02%/°C		1		
	^	:7)	_	105%- (Peak output current)						
19			V 30.0-34.8	45.0-49.7	55.2-60.0					
		9)	-			20ms				
21	Leakage Current (*1		_	Less than 0.5mA. 0.2mA(Typ) at 100VAC / 0.4mA(typ) at 230VAC						
22	Remote Sensing	0)	_	Possible						
23	Remote ON/OFF control	-	_	Possible						
24	Monitoring Signal	-	_	PF(Open Collector Output)						
25			_	Possible						
	Parallel Operation		_	Possible						
27	Series Operation -		_	Possible						
28	*	1)	_	-10 - +71, Start up -20 - +71°C						
	-10 - +40		%		10 171,	100	71 C			
	+50°C		%			100				
	+71°C		%			50				
29	Operating Humidity		-	10 - 90%RH (No Condensing)						
	Storage Temperature	-	_	-30 - +85°C						
	Storage Humidity		_	10 - 95%RH (No Condensing)						
-	Cooling -		_	Forced Air By Blower Fan						
-	Withstand Voltage		_	Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA)						
			Or	Output-FG: 500VAC (300mA), Output-CNT:100VAC (100mA) for 1min.						
34	Isolation Resistance		-	More than 100Mohm Output - FG 500VDC						
				More than 10Mohm Output - CNT 100VDC at 25°C and 70%RH						
35	Vibration		_		•			14 , 0 , 0 1111		
				At no operating, 10 - 55Hz (Sweep for 1min.) 19.6m/s ² Constant, X,Y,Z 1h each.						
36	Shock (In package)		_	Less than 196.1m/s ²						
_	Safety (*1	2)	_ A	Approved by UL60601-1, EN60601-1, CSA-C22.2 No.601.1-M90(C-UL)						
-	Line DIP	-/	_	Built to meet SEMI-F47 (200VAC Line only)						
39	Conducted Emission	+	- Built	Built to meet EN55011/EN55022-A, FCC-ClassA, VCCI-ClassA, CISPR-ClassA.						
40	Radiated Emission	+		Built to meet EN55011/EN55022-A, FCC-ClassA, VCCI-ClassA, CISPR-ClassA. Built to meet EN55011/EN55022-A, FCC-ClassA, VCCI-ClassA, CISPR-ClassA.						
<u> </u>	Immunity	\dashv		Built to meet IEC61000-4-2(Level 2,3), -3(Level 3), -4(Level 3),						
'			Buil					7		
42	Weight	\dashv	g	-5(Level 3,4), -6(Level 3), -8(Level 4), -11 MAX.3200						
_	Size (W x H x D)		m m	12	6.5 x 82 x 240		ne Drawing)			
7.5	one (ii All AD)	111	1	12	5.5 A 62 A 270	, Actor to Outil	בומייוווק)			

DENSEI-LAMBDA

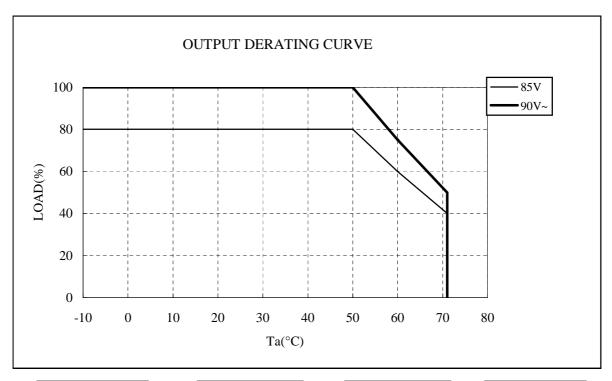
- ${\rm *Read\ instruction\ manual\ carefully,\ before\ using\ the\ power\ supply\ unit.}$
- =NOTES=
- *1. At Ta=25°C and maximum output power.
- *2. For cases where conformance to various safety specs (UL, CSA, EN) are required, input voltage range will be 100 240VAC(50/60Hz).
- *3. First in-rush current. Not applicable to the first 0.2ms in-rush current flowing into the power supply noise filter.
- *4. Measure with JEITA RC-9131A probe, Bandwidth of scope :100MHz. (at 100uF electric capacitor and 0.47uF film capacitor on the test fixture board.)
- $*5.\ 85$ 265VAC , constant load.
- *6. No load-Full load, constant input voltage.
- *7. Constant current limit with automatic recovery. Over current condition for more than 5 seconds will cause the output to shutdown. Output current exceeding maximum rated output current for more than 10 seconds continuously will result to output shutdown.
- *8. OVP circuit will shut down output, manual reset (Power cycle) or ON/OFF CNT signal reset.
- *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. When using it as a patient care equipment, all outer surfaces of the equipment shall be constructed of nonconductive material.

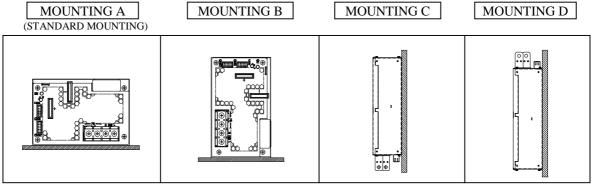
 See clause 19.5DV.2 of UL60601-1.
- *11. Ratings Derating at standard mounting.
 - Load (%) is percent of maximum output power or maximum output current, whichever is greater.
 - As for other mountings, refer to derating curve (DA032-01-02/ME-_).
- *12. As for UL60601-1, EN60601-1 and CSA-C22.2 No.601.1-M90(C-UL) basic insulation.
- *13. Peak output current is less than 10 seconds, and duty 35% max. (200VAC Line only)

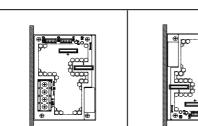
DA032-01-02/ME-A

OUTPUT DERATING

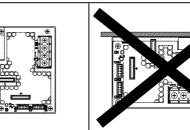
	LOAD(%)				
Ta(°C)	MOUNTING A,B,C,D,G,H				
	85V	90V~			
-10 ~ +50	80	100			
71	40	50			



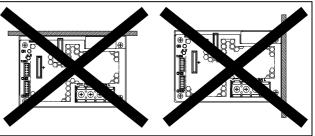




MOUNTING G



MOUNTING H



Inhibit