SPECIFICATIONS

A257-01-01/ME

	MOD	ET		HWS50A	HWS50A	HWS50A	HWS50A	HWS50A	
		EL							
<u> </u>	ITEMS	\succeq	_	-5/ME	-12/ME	-15/ME	-24/ME	-48/ME	
1	Nominal Output Voltage		V	5	12	15	24	48	
2	Maximum Output Current		Α	10	4.3	3.5	2.2	1.1	
3	Maximum Output Power		W	50.0	51.6	52.5	52.8	52.8	
4	Efficiency (Typ.) (*1) 100V		%	82	83	83	84	84	
	200V		%	84	85	86	87	86	
5	1 5 5	*2)	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC					
6	1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	*1)	Α	0.65/0.35					
7	Inrush Current (Typ.) (*1)	*3)	-	14A at 100VAC, 28A at 200VAC, Ta=25°C, Cold Start					
8	PFHC		-	Designed to meet IEC61000-3-2					
9	Voltage Fluctuations / Flicker Emiss		-	Designed to meet IEC61000-3-3					
10		*1)	-			0.97/0.91			
11	Output Voltage Range		V	4.0 - 6.0	9.6 - 14.4	12.0 - 18.0	19.2 - 28.8	38.4 - 52.8	
12	Maximum Ripple & Noise 0 <tas< td=""><td></td><td></td><td>120</td><td>150</td><td>150</td><td>150</td><td>200</td></tas<>			120	150	150	150	200	
	(*4) -10≤Ta		mV	160	180	180	180	240	
13		*5)	mV	20	48	60	96	192	
14		*6)	mV	40	96	120	150	240	
15	Temperature Coefficient		-	Less than 0.02% / °C					
16		*7)	A	10.5 <u>≤</u>	4.51 <u>≤</u>	3.67 ≤	2.31 <u>≤</u>	1.15 ≤	
17		*8)	V	6.25 - 7.25	15.0 - 17.4	18.8 - 21.8	30.0 - 34.8	55.2 - 64.8	
18		*1)	-	20ms					
19	· ·	*9)	-	Less than 0.5mA. 0.2mA (Typ) at 100VAC / 0.4mA (Typ) at 230VAC					
20	Remote Sensing		-	-					
21	Parallel Operation		-	•					
22	Series Operation		-	Possible					
23	- F	10)	-	-10 to +70°C (-10 to +50°C:100%, +60°C:70%, +70°C:40%)					
24	Operating Humidity		-	30 to 90%RH (No Condensing)					
25	Storage Temperature		-	-30 to +85°C					
26	Storage Humidity		-	10 to 95%RH (No Condensing)					
27	Cooling		-	Convection Cooling					
28	Withstand Voltage		_	Input - FG: 2kVAC (20mA), Input - Output: 3kVAC (20mA)					
				Output - FG: 500VAC (20mA) for 1min					
29	Isolation Resistance		-	More than $100M\Omega$ at 25° C and 70% RH Output - FG : 500 VDC					
30	Vibration								
				19.6m/s ² Constant, X,Y,Z 1hour each.					
31	Shock		-	Less than 196.1m/s ²					
32		11)	-	Approved by ES60601-1, EN60601-1, CSA-C22.2 No.60601-1					
33	Line DIP		-	Designed to meet SEMI-F47 (200VAC Line only)					
34	(12)	-	Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B					
35		12)	-	Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B					
						0-4-2, -3, -4, -5,	-6, -8, -11		
37				260g					
	Size (W x H x D)		mm	26.5 x 82 x 120 (Refer to Outline Drawing)					
*Dood instruction manual constilly before using the neuron graphy unit									

*Read instruction manual carefully, before using the power supply unit.

=NOTES=

- *1. At 100VAC/200VAC, Ta=25°C, nominal output voltage and maximum output power.
- *2. For cases where conformance to various safety specs (ES, 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 0.2 ms.
- *4. Measure with JEITA RC-9131B probe, Bandwidth of scope :100MHz.
- *5. 85 265VAC, constant load.
- *6. No load-Full load, constant input voltage.
- *7. Hiccup with automatic recovery. Avoid to operate at over load or short circuit condition.
- *8. OVP circuit will shut down output, manual reset (Re power on).
- *9. Measured by the each measuring method of ES, CSA and EN (at 60Hz).
- *10. Output Derating
 - Derating at standard mounting. Refer to OUTPUT DERATING CURVE (A257-01-02_).
 - Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.
- *11. As for ES60601-1, EN60601-1 and CSA-C22.2 No.60601-1, 3rd Edition and MOOP level.
- *12. The power supply is considered a component which will be installed into a final equipment.

The final equipment should be re-evaluated that it meets EMC directives.