## **SPECIFICATIONS**

## A258-01-01/ME-A

MODEL			П	HWS100A	HWS100A	HWS100A	HWS100A	HWS100A	
ITEMS				-5/ME	-12/ME	-15/ME	-24/ME	-48/ME	
1	Nominal Output Voltage	$\frac{1}{\sqrt{v}}$	7	5	12	15	24	48	
2	Maximum Output Current	A	-	20	8.5	7	4.5	2.1	
3	Maximum Output Power	V	_	100.0	102.0	105.0	108.0	100.8	
4	Efficiency (Typ.) (*1) 100V			84	86	86	87	88	
-	200V.			86	88	88	89	90	
5		2) -	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC					
6		1) A	-	1.3/0.65					
7	Inrush Current (Typ.) (*1)(		$\neg$	14A at 100VAC, 28A at 200VAC, Ta=25°C, Cold Start					
8	PFHC		_	Designed to meet IEC61000-3-2					
9	Voltage Fluctuations / Flicker Emission	ns -	┪	Designed to meet IEC61000-3-3					
10	č	1) -	7	0.98/0.93					
11	Output Voltage Range	V	7	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\(\text{Ta}\)	°C m	V	120	150	150	150	200	
	(*4) -10 <u>&lt;</u> Ta<		$\overline{}$	160	180	180	180	240	
13		5) m	$\overline{}$	20	48	60	96	192	
14		6) m	V	40	96	120	150	240	
15	Temperature Coefficient	-	-	Less than 0.02% / °C					
16		7) A	$\Box$	21.0 <	8.92 <	7.35 <u>&lt;</u>	4.72 <	2.20 <	
17		8) V	7	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	<u> </u>		Possible					
21	Parallel Operation	_		-					
22	Series Operation	_		Possible					
23	Operating Temperature (*	0) -		-10 to +70°C (-10 to +50°C:100%, +60°C:65%, +70°C:30%)					
24	Operating Humidity	<u> </u>	T	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 100MΩ at 25°C and 70%RH Output - FG: 500VDC					
30	Vibration	_	٦	At no operating, 10 - 55Hz (Sweep for 1min)					
				19.6m/s <sup>2</sup> Constant, X,Y,Z 1hour each.					
31	Shock	-		Less than 196.1m/s <sup>2</sup>					
32	Safety (*	1) -		Approved by ES60601-1, EN60601-1, CSA-C22.2 No.60601-1					
33	Line DIP			Designed to meet SEMI-F47 (200VAC Line only)					
34	Conducted Emission (*	2) -		Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B					
35	Radiated Emission (*			Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B					
36	Immunity (*	2) -		Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11					
37	Weight (Typ) - 420g								
38									
*Posed instruction means of confills, before using the neuron graphs 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. Constant current limit and 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 (A258-01-02\_).
  - 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.