

HWS15A/ADIN

SPECIFICATIONS

A255-01-01/ADIN-C

ITEMS		MODEL	HWS15A-5/ADIN	HWS15A-12/ADIN	HWS15A-15/ADIN	HWS15A-24/ADIN	HWS15A-48/ADIN	
1	Nominal Output Voltage	V	5	12	15	24	48	
2	Maximum Output Current	A	3	1.3	1	0.65	0.33	
3	Maximum Output Power	W	15.0	15.6	15.0	15.6	15.8	
4	Efficiency (Typ.) (*1)	100VAC	%	77	80	81	82	82
		200VAC	%	79	83	84	85	82
5	Input Voltage Range (*2)	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC					
6	Input Current (Typ.) (*1)	A	0.35/0.2					
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	Output Voltage Range	V	4.0 - 6.0	9.6 - 14.4	12.0 - 18.0	19.2 - 28.8	38.4 - 52.8	
10	Maximum Ripple & Noise (*4)	0≤Ta≤70°C	mV	120	150	150	150	200
		-10≤Ta<0°C	mV	160	180	180	180	240
11	Maximum Line Regulation (*5)	mV	20	48	60	96	192	
12	Maximum Load Regulation (*6)	mV	40	96	120	150	240	
13	Temperature Coefficient	-	Less than 0.02% / °C					
14	Over Current Protection (*7)	A	3.15 ≤	1.36 ≤	1.05 ≤	0.68 ≤	0.34 ≤	
15	Over Voltage Protection (*8)	V	6.25 - 7.25	15.0 - 17.4	18.8 - 21.8	30.0 - 34.8	55.2 - 64.8	
16	Hold-up Time (Typ.) (*1)	-	20ms					
17	Leakage Current (*9)	-	Less than 0.5mA. 0.2mA (Typ) at 100VAC / 0.4mA (Typ) at 230VAC					
18	Remote Sensing	-	-					
19	Parallel Operation	-	-					
20	Series Operation	-	Possible					
21	Operating Temperature (*10)	-	-10 to +70°C (-10 to +50°C:100%, +60°C:80%, +70°C:60%)					
22	Operating Humidity	-	30 to 90%RH (No Condensing)					
23	Storage Temperature	-	-30 to +85°C					
24	Storage Humidity	-	10 to 95%RH (No Condensing)					
25	Cooling	-	Convection Cooling					
26	Withstand Voltage	-	Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA) Output - FG : 500VAC (20mA) for 1min					
27	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output - FG : 500VDC					
28	Vibration	-	At no operating, 10 - 55Hz (Sweep for 1min) 9.8m/s ² Constant, X,Y,Z 1hour each.					
29	Shock	-	Less than 147m/s ²					
30	Safety	-	Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1, EN60950-1 (Expire date of 60950-1 : 20/12/2020) UL508, CSA C22.2 No.107.1-01. Designed to meet Den-an Appendix 8 at 100VAC only.					
31	Line DIP	-	Designed to meet SEMI-F47 (200VAC Line only)					
32	Conducted Emission (*11)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B					
33	Radiated Emission (*11)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B					
34	Immunity (*11)	-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11					
35	Weight (Typ.)	-	390g					
36	Size (W x H x D)	mm	42 x 113 x 128.8 (Refer to Outline Drawing)					

*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 (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-9131B probe, Bandwidth of scope :100MHz.

For start up at low ambient temperature and low input voltage, output ripple noise might not meet specification.

However, specification can be met after one second.

*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 UL, CSA, EN and Den-an (at 60Hz), Ta=25°C.

*10. Output Derating

- Derating at standard mounting. Refer to OUTPUT DERATING CURVE (A255-01-02/ADIN-).

- Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.

*11. The power supply is considered a component which will be installed into a final equipment.

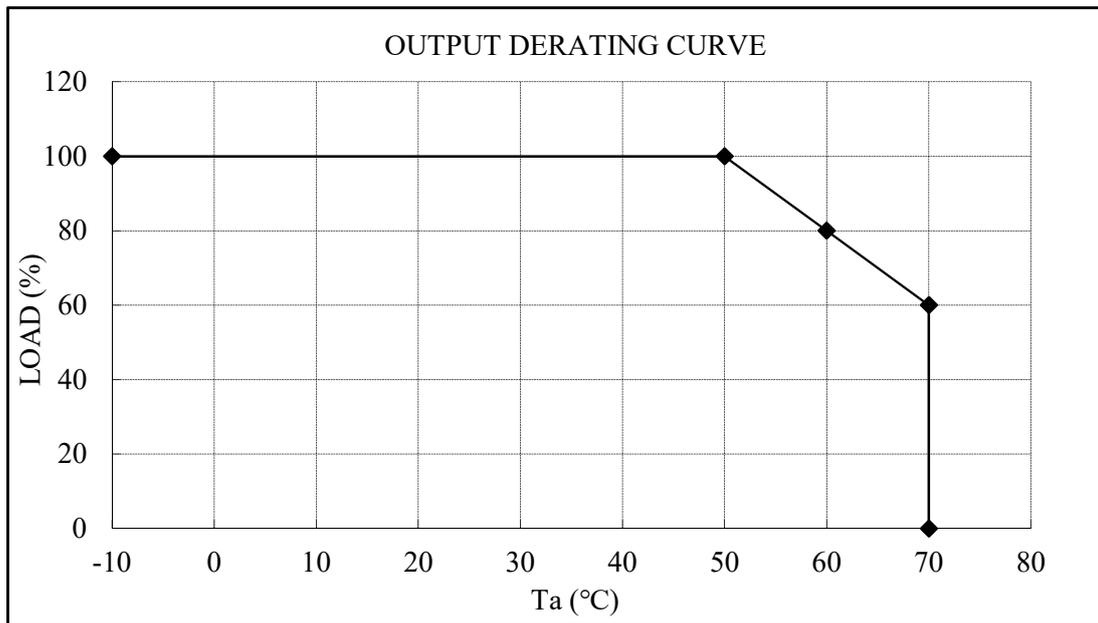
The final equipment should be re-evaluated that it meets EMC directives.

HWS15A/ADIN

OUTPUT DERATING

A255-01-02/ADIN

Ta (°C)	LOAD (%)
	STANDARD MOUNTING
-10 - +50	100
60	80
70	60



STANDARD MOUNTING

