HMS100/R

SPECIFICATIONS

A277-01-01/R-A

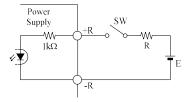
MODEL			HMS100	HMS100	HMS100	HMS100	HMS100
ITEMS			-5/R	-12/R	-15/R	-24/R	-48/R
1	Nominal Output Voltage	V	5	12	15	24	48
2	Maximum Output Current	A	20	8.5	7	4.5	2.1
3	Maximum Output Power	W	100.0	102.0	105.0	108.0	100.8
4	Efficiency (Typ.) (*1) 100VA	C %	84	86	86	87	88
	200VA	C %	86	88	88	89	90
5	Input Voltage Range (*.	2) -		85 - 265VAC	(47 - 63Hz) or 8	80 - 370VDC	-
				75-85VAC : Operation time within 20 seconds.			
6	Input Current (Typ.) (*	l) A		1.3/0.65			
7	Inrush Current (Typ.) (*1)(*.	3) -	14A	at 100VAC, 28	A at 200VAC, T	Ta=25°C, Cold S	Start
8	PFHC	-		Designed	to meet IEC61	000-3-2	
9	Power Factor (Typ.) (*	l) -			0.98/0.93		
10	Output Voltage Range	V	4.0 - 6.4	9.0 - 14.4	12.0 - 18.0	19.2 - 28.8	38.4 - 52.8
11	Maximum Ripple & Noise 0≤Ta≤70	c mV	120	150	150	150	200
	(*4) -10 <u><</u> Ta<0	c mV	160	180	180	180	240
12	Maximum Line Regulation (*.	5) mV	20	48	60	96	192
13	Maximum Load Regulation (*	6) mV	40	96	120	150	240
14	Temperature Coefficient	-		Les	ss than 0.02% /	°C	
15	Over Current Protection (*		21.0 ≤	8.92 ≤	7.35 <u>≤</u>	4.72 <u>≤</u>	2.20 ≤
16	Over Voltage Protection (*	3) V	6.67 - 7.73	15.0 - 17.4	18.8 - 21.8	30.0 - 34.8	55.2 - 64.8
17	Hold-up Time (Typ.) (*	l) -			20ms		
18	Leakage Current (*)	9) -	Less than 0.5mA. 0.2mA (Typ) at 100VAC / 0.4mA (Typ) at 230VAC				
19	Remote Sensing	-		Possible			
20	Remote ON/OFF Control (*1))) -		Possible			
21	Parallel Operation	-			-		
22	Series Operation	-			Possible		
23	Operating Temperature (*1	l) -	-10 to +70°C (-10 to +50°C:100%, +60°C:60%, +70°C:20%)				
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 100MΩ at 25°C and 70%RH Output - FG: 500VDC				
30	Vibration	-	At no operating, 10 - 55Hz (Sweep for 1min)				
			19.6m/s ² Constant, X,Y,Z 1hour each.				
31	Shock	-	Less than 196.1m/s ²				
32	Line DIP	-	Designed to meet SEMI-F47 (200VAC Line only)				
33	Conducted Emission (*1:	2) -	Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B				
34	Radiated Emission (*1	2) -	Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B				
35	Immunity (*1	2) -	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11				
36	Weight (Typ)	-	470g				
37	Size (W x H x D)	mm		33.5 x 83 x 160	.5 (Refer to Ou	tline Drawing)	
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*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. Output derating needed when input voltage less than 110VDC and 90VAC. Refer to OUTPUT DERATING CURVE.(A277-01-02, A277-01-03)
- *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.
- *5. 85 265VAC, constant load.
- *6. No load-Full load, constant input voltage.
- *7. 5V : Constant current limit and Hiccup with automatic recovery. 12V - 48V : Constant current limit 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 IEC60950-1 (at 60Hz), Ta=25°C.
- *10. As for ON/OFF control mode, see the right figure.
- *11. Output Derating
 - Derating at standard mounting. Refer to OUTPUT DERATING CURVE.(A277-01-02_, A277-01-03_)
 - Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.
- *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.



The control mode is shown below					
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+R & -R terminal condition	Output condition
SW ON (Higher than 4.5V)	ON
SW OFF (Lower than 0.8V)	OFF

External voltage level : E	External resistance : R
4.5 ~ 12.5VDC	No required
12.5 ~ 24.5VDC	1.5kΩ