MS－10

A007-01-01A

SPECIFICATIONS

	Items \ Model		MS-10-2	MS-10-5	MS-10-6	MS-10-9	MS-10-12	MS-10-15	MS-10-18	MS-10-24	MS-10-28	MS-10-48
1	Nominal Output Voltage	V	2	5	6	9	12	15	18	24	28	48
2	Maximum Output Current	A	10	10	8.5	6.0	5.0	4.0	3.5	3.0	2.5	1.5
3	Maximum Output Power	W	20	50	51	54	60	60	63	72	70	72
4	Efficiency (Typ) (*1)	%	65	75	75	75	78	80	80	82	83	83
5	Input Voltage Range (*9)	—	85~132VAC (47~440Hz) or 90~165VDC									
6	Input Current (Typ) (*1)	A	0.5	1.2	1.2	1.3	1.35	1.3	1.4	1.5	1.45	1.45
7	In-rush Current (Typ) (*2)	A	20A at 100VAC									
8	Output Voltage Range	%	±10% (Typ)									
9	Maximum Ripple & Noise	mV	50	50	50	60	60	60	80	80	80	100
10	Maximum Line Regulation (*3)	mV	20	20	24	36	48	60	72	96	112	192
11	Maximum Load Regulation (*4)	mV	20	20	24	36	48	60	72	96	112	192
12	Over Current Protection (*5)	A	11.0~13.0	11.0~13.0	9.4~11.0	6.6~7.8	5.5~6.5	4.4~5.2	3.9~4.6	3.3~4.0	2.8~3.3	1.7~2.0
13	Over Voltage Protection (*6)	V	2.7~2.9	5.75~6.25	6.9~7.5	10.5~11.2	14.0~15.0	17.5~18.7	21.0~22.5	28.0~30.0	32.7~35.0	56.2~60.0
14	Hold-Up Time (*7)	ms	More than 20ms									
15	Remote Sensing	—	Possible									
16	Remote ON/OFF Control (*8)	—	Possible									
17	Parallel Operation	—	Possible									
18	Series Operation	—	Possible									
19	Operating Temperature (*9)	℃	-10 ~ +71									
20	Operating Humidity	%	30% ~ 90% RH									
21	Storage Temperature	℃	-30 ~ +85									
22	Storage Humidity	%	10% ~ 95% RH									
23	Cooling	—	Convection cooled									
24	Temperature Coefficient	%	Less than 1% at -10℃ ~ +71℃									
25	Withstand Voltage	kV	Input-Output , Input-Chassis…2.0kVAC 1min (20mA)									
26	Isolation Resistance	Ω	More than 100MΩ at 25℃ and 70%RH Output-Chassis…500VDC									
27	Vibration	G	Less than 19.6 m/s²									
28	Shock	G	Less than 196.1m/s²									
29	Weight	g	690									
30	Size	—	Refer to Outline Drawing									

NOTES

*1 : At 100VAC & maximum output power.

*2 : When resuming operation in less than 5 sec after power failure at no load, softstart circuit will not limit the in-rush current at turn-on.

*3 : From 85~132VAC or 90~165VDC, constant load.

*4 : From No load ~ Full load, constant input voltage.

*5 : Constant current limiting with automatic recovery.

*6 : Inverter shut-down method, manual reset.

*7 : At 100VAC input, and output power of 50 W.

*8 : TTL compatible input :greater than 2V or open…shutdown, 0V~0.8V…power on. Supply voltage to CNT must not exceed 7V.

*9 : Ratings : Percent of maximum output current or maximum output power, whichever is greater.

i) With respect to operating temperature

-10℃… 60% , 60℃…70%

0~50℃…100% , 71℃…50% (61℃~71℃ Forced air cooling)

ii) With respect to input voltage

85~132VAC or 110~165VDC…100%

90~110VDC… 80%