HR-10F

SPECIFICATIONS

A124-01-01B

	Items / Model		HR-10F -2	HR-10F -5	HR-10F -6	HR-10F -9	HR-10F -12	HR-10F -15	HR-10F -18	HR-10F -20	HR-10F -24	HR-10F -28	HR-10F -30	HR-10F -36	HR-10F -48
1	Nominal Output Voltage	V	2	5	6	9	12	15	18	20	24	28	30	36	48
2	Maximum Output Current	A	10	10	8.5	6	5	4	3.5	3.5	3	2.5	2.3	2	1.5
3	Maximum Output Power	W	20	50	51	54	60	60	63	70	72	70	69	72	72
4	Efficiency (typ) (*1)	%	63	73	73	73	77	79	79	79	82	82	82	82	82
5	Input Voltage Range (*2)	—	90～132VAC(47～440Hz) or 115～180VDC												
6	Input Current (typ) (*1)	A	0.6	1.3	1.3	1.5	1.5	1.4	1.5	1.7	1.7	1.6	1.6	1.6	1.6
7	In-rush Current (typ) (*3)	—	15A at 100VAC												
8	Output Voltage range	—	±10%												
9	Maximum Ripple & Noise	mV	50	50	50	60	60	60	80	80	80	80	90	90	100
10	Maximum Line Regulation (*4)	mV	20	20	24	36	48	60	72	80	96	112	144	144	192
11	Maximum Load Regulation (*5)	mV	20	20	24	36	48	60	72	80	96	112	144	144	192
12	Over Current Protection (*6)	A	10.5 ～12.5	10.5 ～12.5	8.9 ～10.7	6.3 ～7.5	5.2 ～6.3	4.2 ～5.0	3.7 ～4.4	3.7 ～4.4	3.2 ～3.8	2.6 ～3.2	2.4 ～2.9	2.1 ～2.5	1.6 ～1.9
13	Over Voltage Protection (*7)	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	23.4 ～25.0	28.0 ～30.0	32.7 ～35.0	35.1 ～37.5	41.4 ～45.0	56.2 ～60.0
14	Hold-up time (*8)	—	More than 16ms												
15	Remote Sensing	—	Possible												
16	Remote ON/OFF Control (*9)	—	Possible												
17	Series Operation	—	Possible												
18	Parallel Operation	—	Possible												
19	Operating Temperature (*10)	—	-10℃ ～ +71℃												
20	Operating Humidity	—	30% ～ 90%RH (No dewdrop)												
21	Storage Temperature	—	-30℃ ～ +85℃												
22	Storage Humidity	—	10% ～ 95%RH (No dewdrop)												
23	Cooling	—	Convection cooled												
24	Temperature Coefficient	—	Less than 1% at -10℃ ～ +71℃												
25	Withstand Voltage	—	Input-Output, Input-Chassis ··· 2.0kVAC 1min. (20mA)												
26	Isolation Resistance	—	More than 100MΩ at 25℃ and 70%RH, Output-Chassis ··· 500VDC												
27	Vibration	—	At no operating, 10～55Hz (sweep for 1min) Less than 19.6m/s² X,Y,Z 1h each												
28	Shock	—	Less than 196.1 m/s²												
29	Safety Standard	—	Conform to UL1950-D3												
30	Conducted Emission Noise	—	Conform to FCC-class A												
31	Weight	—	650g												
32	Size (W×H×D)	mm	43×115×183mm (Refer to Outline Drawing)												

NOTES

*1 : At 100VAC & Maximum output power.

*2 : For cases where conformance to various safety specs are required to be described as 100-120VAC, 50/60Hz on front panel.

*3 : When resuming operation in less than 8 sec after power failure at no load, softstart circuit will not limit the in-rush current at turn-on.

*4 : From 90～132VAC or 115～180VDC, constant load.

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

*6 : Constant current limiting with automatic recovery.

*7 : Inverter shut-down method, manual reset. OVP curcuit will shut-down output.

*8 : At 100VAC input, nominal output voltage & output power of 50W.

*9 : TTL compatible input ; 2V～open for shut-down. 0V～0.8V for power-on. Supply voltage to CNT terminal must not exceed 7V.

*10 : Ratings — Refer to Derating Curve on the right.
— Load(%) is percent of maximum output power or maximum output current, whichever is greater.
— +61～+71℃ ; Forced air cooled by outer cooling method.
— Refer to instruction manual for further mounting details.

Derating curve (vertical mounting)