

HK100A

SPECIFICATIONS

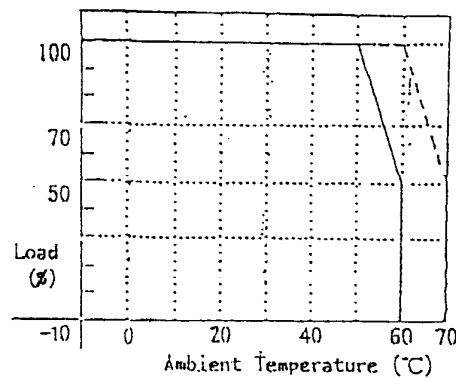
PA783-01-01C

ITEMS	MODEL	HK100A-3	HK100A-5	HK100A-12	HK100A-15	HK100A-24
1 Nominal Output Voltage	V	3.3	5	12	15	24
2 Maximum Output Current	A	20.0	20.0	8.5	7.0	4.5
3 Maximum Output Power	W	66	100	102	105	108
4 Efficiency (Typ)	(*1) %	75	80	81	81	82
5 Input Voltage Range	(*2) -	85-132VAC (47-440Hz) or 110-175VDC				
6 Input Current (Typ)	(*1) A	1.5	2.2			
7 Inrush Current (Typ)	-	15A at 100VAC				
8 Output Voltage Range (Typ)	-	±10%				
9 Maximum Ripple & Noise	mV	120	120	150	150	150
10 Maximum Line Regulation	(*3) mV	20	20	48	60	96
11 Maximum Load Regulation	(*4) mV	40	40	96	120	150
12 Over Current Protection	(*5) -	>105%				
13 Over Voltage Protection	(*6) -	115% - 135%				
14 Hold Up Time (Typ)	(*1) -	20ms				
15 Remote Sensing	-	Possible				
16 Remote ON/OFF Control	-	-				
17 Parallel Operation	-	-				
18 Series Operation	-	Possible				
19 Operating Temperature	(*8) -	-10 ~ +50°C (100%), 60°C (50%)				
20 Operating Humidity	-	30% ~ 90% RH				
21 Storage Temperature	-	-30°C ~ +85°C				
22 Storage Humidity	-	10% ~ 95% RH				
23 Cooling	-	Convection cooled				
24 Temperature Coefficient	-	1% (Typ) at -10°C ~ +50°C				
25 Withstand Voltage	(*7) -	Input - Chassis, Input - Output : 2kVAC (20mA) Output - Chassis : 500VAC (100mA) for 1min				
26 Isolation Resistance	-	More than 100MΩ at 25°C and 70% RH Output-chassis ... 500VDC				
27 Vibration	-	Less than 19.6m/s ²				
28 Shock	-	Less than 196.1m/s ²				
29 Safety	-	Build to meet UL1950, CSA C22.2 NO. 234 & DENTORI				
30 Conducted Radio Noise	-	Build to meet FCC class B, VCCI-B				
31 Weight	-	540g				
32 Size (W H D)	-	34.5mm X 93mm X 150mm (Refer to Outline Drawing)				

NOTES :

- *1 : At 100VAC and Maximum Output Power, Ta = 25°C
- *2 : For cases where conformance to various safety specs (UL, CSA, VDE) are required, to be described as 100 - 120VAC, 50/60Hz on name plate.
- *3 : From 85 ~ 132VAC or 110 ~ 175VDC, constant load.
- *4 : From No load - Full load, Constant Input Voltage.
- *5 : Current limiting with automatic recovery.
(Refer to Instruction Manual for details)
- *6 : Inverter shutdown method, manual reset.
- *7 : Refer to Instruction Manual for testing procedure.
- *8 : Ratings - Refer to Derating Curve on the right.
 - Load(%) is percent of maximum Output Power or Maximum Output Current, whichever is greater.
 - Refer to Instruction Manual for further mounting details.

Derating Curve
(Vertical Mounting)



————— Convection cooled
 - - - - - Forced air cooled

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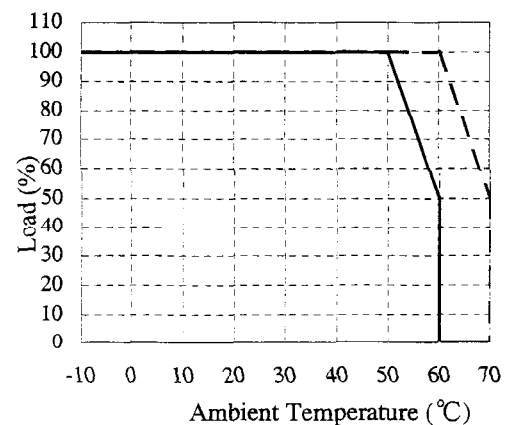
PA783-01-02

ITEMS		MODEL	HK100A-9
1	Nominal Output Voltage	-	9V
2	Maximum Output Current	-	11.2A
3	Maximum Output Power	-	100.8W
4	Efficiency (Typ.)	(*1) -	80%
5	Input Voltage Range	-	85 ~ 132VAC (47 ~ 440Hz) or 110 ~ 175VDC
6	Input Current (Typ.)	(*1) -	2.2A
7	Inrush Current (Typ.)	-	15A at 100VAC
8	Output Voltage Range (Typ.)	-	±10%
9	Maximum Ripple & Noise	-	150mV
10	Maximum Line Regulation	(*2) -	36mV
11	Maximum Load Regulation	(*3) -	72mV
12	Over Current Protection	(*4) -	>105%
13	Over Voltage Protection	(*5) -	115% ~ 135%
14	Hold Up Time (Typ.)	(*1) -	20ms
15	Remote Sensing	-	Possible
16	Remote ON/OFF Control	-	-
17	Parallel Operation	-	-
18	Series Operation	-	Possible
19	Operating Temperature	(*7) -	-10°C ~ +50°C (100%), 60°C (50%)
20	Operating Humidity	-	30% ~ 90%RH
21	Storage Temperature	-	-30°C ~ +85°C
22	Storage Humidity	-	10% ~ 95%RH
23	Cooling	-	Convection cooled
24	Temperature Coefficient	-	1% (Typ.) at -10°C ~ +50°C
25	Withstand Voltage	(*6) -	Input - Chassis, Input - Output : 2kVAC (20mA) Output - Chassis : 500VAC (100mA) for 1min
26	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output-chassis...500VDC
27	Vibration	-	Less than 19.6m/s ²
28	Shock	-	Less than 196.1m/s ²
29	Conducted Radio Noise	-	Build to meet FCC class B, VCCI-B
30	Weight	-	540g
31	Size (W.H.D)	-	34.5mm×93mm×150mm (Refer to Outline Drawing)

NOTES:

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(Refer to Instruction Manual for details)
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- *7: Ratings - Refer to Derating Curve on the right.
 - Load (%) is percent of maximum Output Power or Maximum Output Current, whichever is greater.
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**Derating Curve
(Vertical Mounting)**



— Convection cooled
- - - Forced air cooled

HK100A

OUTPUT DERATING

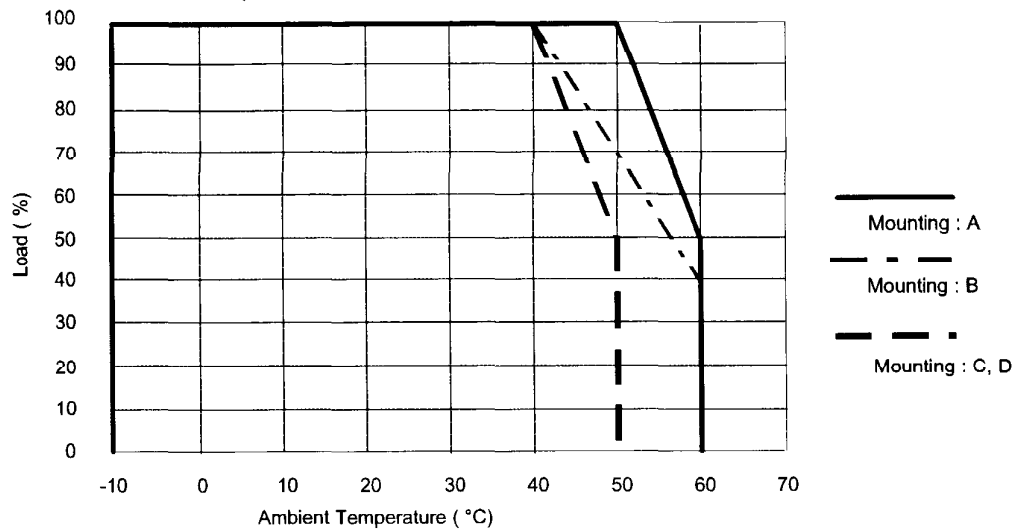
OPEN FLAME (NO COVER) Convection Cooling

Ta(°C)	LOAD(%)			
	MOUNTING : A	MOUNTING : B	MOUNTING : C	MOUNTING : D
-10 ~ 0	100	100	100	100
20	100	100	100	100
40	100	100	100	100
50	100	70	50	50
60	50	40	-	-

WITH COVER (OPTION) Convection Cooling

Ta(°C)	LOAD(%)			
	MOUNTING : A	MOUNTING : B	MOUNTING : C	MOUNTING : D
-10 ~ 0	100	100	100	100
20	100	100	100	100
40	100	100	50	50
50	50	50	-	-
60	-	-	-	-

Output Derating Curve
(Without Cover : Open Frame Type)



MOUNTING : A
 MOUNTING : B
 MOUNTING : C
 MOUNTING : D
 DON'T USE

(STANDARD MOUNTING)

