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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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HK150A

SPECIFICATIONS

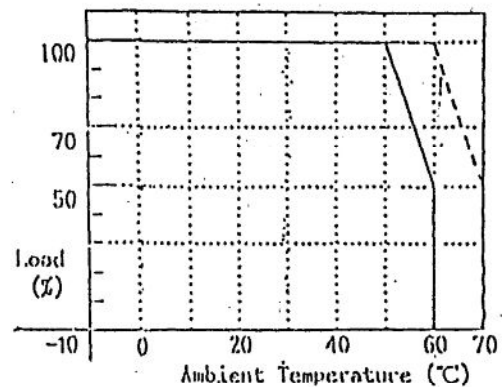
PA784-01-01F

ITEMS	MODEL	HK150A-3	HK150A-5	HK150A-12	HK150A-15	HK150A-24
1 Nominal Output Voltage	V	3.3	5	12	15	24
2 Maximum Output Current	A	30.0	30.0	12.5	10	6.5
3 Maximum Output Power	W	99	150	150	150	156
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	2.2	3.2			
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 Regulatio (*3)	mV	20	20	48	60	96
11 Maximum Load Regulatio (*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)	-	20 ms				
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 100MOhm 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	-	Approved by UL60950-1 & CSA C22.2 No.60950. Designed to meet DENAN				
30 Conducted Radio Noise	-	Designed to meet FCC class B, VCCI-B				
31 Weight	-	650g				
32 Size (W.H.D)	-	43mm X 93mm X 170mm (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

HK150A

SPECIFICATIONS

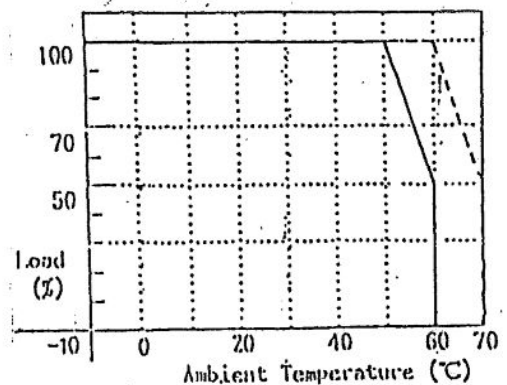
PA784-01-02D

ITEMS		MODEL	HK150A-18
1	Nominal Output Voltage	V	18
2	Maximum Output Current	A	8.5
3	Maximum Output Power	W	153
4	Efficiency (Typ) (*1)	-	81%
5	Input Voltage Range (*2)	-	85-132VAC (47-440Hz) or 110-175VDC
6	Input Current (Typ) (*1)	A	3.2
7	In-rush Current (Typ)	-	15A at 100VAC
8	Output Voltage Range (Typ)	-	±10%
9	Maximum Ripple & Noise	mV	150
10	Maximum Line Regulation (*3)	mV	72
11	Maximum Load Regulation (*4)	mV	140
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 100M ohm 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	-	Designed to meet UL60950-1, CSA C22.2 No.60950 & DENAN
30	Conducted Radio Noise	-	Designed to meet FCC class B, VCCI-B
31	Weight	-	650g
32	Size (W.H.D)	-	43mm X 93mm X 170mm (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 : Constant 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

HK150A

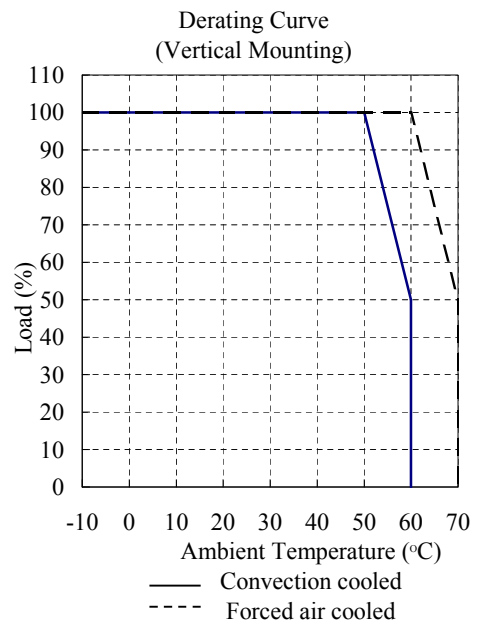
SPECIFICATIONS

PA784-01-03B

MODEL		HK150A-8	
ITEMS			
1	Nominal Output Voltage	-	8V
2	Maximum Output Current	-	18.7A
3	Maximum Output Power	-	149.6W
4	Efficiency (Typ.)	(*1)	80%
5	Input Voltage Range	(*2)	85 - 132VAC (47 - 440Hz) or 110 - 175VDC
6	Input Current (Typ.)	(*1)	3.2A
7	In-rush Current (Typ.)	-	15A at 100VAC
8	Output Voltage Range (Typ.)	-	±10%
9	Maximum Ripple & Noise	-	150mV
10	Maximum Line Regulation	(*3)	32mV
11	Maximum Load Regulation	(*4)	64mV
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°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	(*7)	Input - Chassis, Input - Output...2.0kVAC 1min Output - Chassis...500VAC 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	-	Designed to meet UL60950-1, CSA C22.2 No.60950 & DENAN
30	Conducted Radio Noise	-	Designed to meet FCC class B, VCCI-B
31	Weight	-	650g
32	Size (W.H.D)	-	43mm×93mm×170mm (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, CAS, 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: Constant 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.



HK150A

OUTPUT DERATING

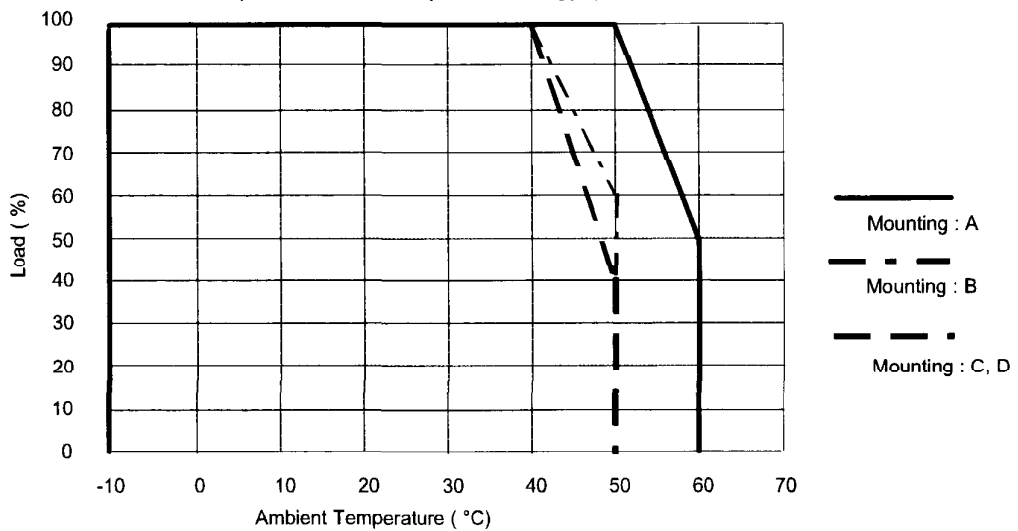
OPEN FLAME (NO COVER)

Ta(°C)	LOAD(%)			
	MOUNTING : A	MOUNTING : B	MOUNTING : C	MOUNTING : D
-10 ~ 20	100	100	100	100
30	100	100	100	100
40	100	100	100	100
50	100	60	40	40
60	50	-	-	-

WITH COVER (OPTION)

Ta(°C)	LOAD(%)			
	MOUNTING : A	MOUNTING : B	MOUNTING : C	MOUNTING : D
-10 ~ 20	100	100	100	100
30	100	100	100	100
40	100	50	40	40
50	50	-	-	-
60	-	-	-	-

Output Derating Curve
(Without Cover : Open Frame Type)



MOUNTING : A

MOUNTING : B

MOUNTING : C

MOUNTING : D

DON'T USE

(STANDARD MOUNTING)

