

# HKT 160 SPECIFICATIONS

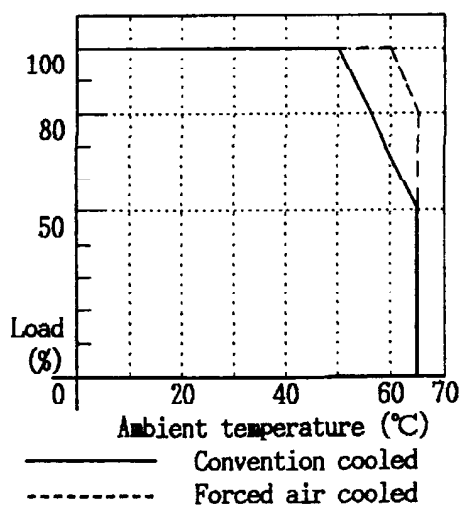
A071 - 01 - 01A

Items	Model	HKT 160 - 522			HKT 160 - 5FF			HKT 160 - 525			
		CH	V 1	V 2	V 3	V 1	V 2	V 3	V 1	V 2	V 3
1	Nominal Output Voltage	V	5	+12	-12	5	+15	-15	5	+12	- 5
2	Minimum Output Current	A	3	0	0	3	0	0	3	0	0
3	Maximum Output Current (*10)	A	20	5	2	20	4	2	20	5	2
4	Maximum Output Power/CH	W	100	60	24	100	60	30	100	60	10
5	Maximum Output Power	W	160			160			160		
6	Efficiency (Typ) (*1)	-	75% <sub>p</sub>								
7	Input Voltage Range	-	85 ~ 132VAC (47 ~ 440Hz) or 110 ~ 175VDC								
8	Input Current(Typ) (*1)	-	3.5A								
9	In-rush Current (Typ) (*2)	-	15A at 100VAC (130VDC)								
10	Output Voltage Range	-	V1 ... 5.0 ~ 5.3V ; V2, V3 ... Fixed ( ±5% Max )								
11	Maximum Ripple & Noise	mV	120	150	150	120	150	150	120	150	150
12	Maximum Line Regulation (*3)	mV	20	48	48	20	60	60	20	48	20
13	Maximum Load Regulation (*4)	mV	40	100	150	40	120	150	40	100	100
14	Maximum Temperature Drift(*5)	mV	50	120	240	50	150	300	50	120	100
15	Over Current Protection (*6)	-	105% ~								
16	Over Voltage Protection (*7)	-	V1 Only ... 5.7 ~ 7.0V								
17	Hold-Up Time (Typ) (*1)	-	20ms								
18	Operating Temperature (*9)	-	0 ~ +65°C								
19	Operating Humidity	-	30 ~ 90% RH								
20	Storage Temperature	-	-30 ~ +85°C								
21	Storage Humidity	-	10 ~ 95% RH								
22	Cooling	-	Convection cooled								
23	Withstand Voltage (*8)	-	Input - Chassis , Input - Output ... 2.0kVAC 1min. Output - Chassis ... 500VAC 1min.								
24	Isolation Resistance (*8)	-	More than 100MΩ at 25°C and 70% RH Output-Chassis...500VDC								
25	Vibration	-	10 ~ 55 Hz (sweep 1min) Less than 19.6m/s <sup>2</sup> --- X, Y, Z 1h each								
26	Shock	-	Less than 196.1m/s <sup>2</sup>								
27	Weight	-	1050g								
28	Size (W×H×D)	-	49 × 95 × 260			Refer to Outline Drawing					

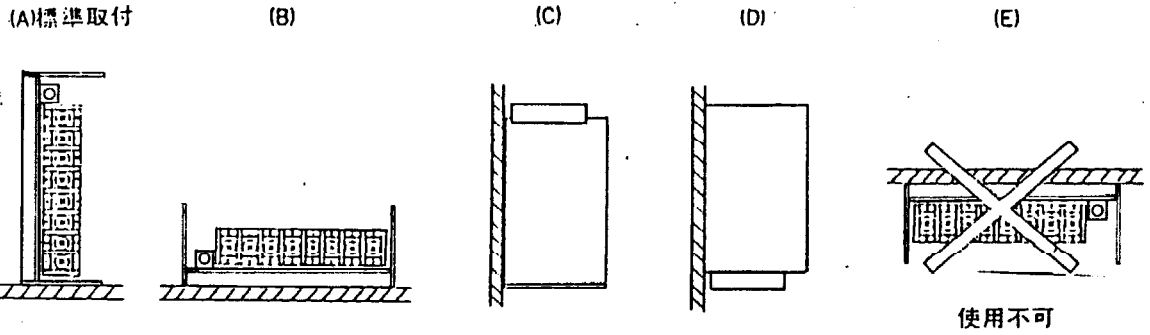
## NOTES

- \* 1 : At 100VAC & Maximum output power.
- \* 2 : When resuming operation in less than 5sec after power failure, soft-start circuit will not limit the in-rush current at turn-on.
- \* 3 : From 85 ~ 132VAC or 110 ~ 175VDC, constant load.
- \* 4 : From Minimum load ~ Maximum load, constant input voltage.
- \* 5 : From 0 ~ 65°C, constant input voltage and load.
- \* 6 : V1 , V2 , V3 current limiting with automatic recovery.  
Avoid to operate over load or dead short for a long time.  
( Refer to instruction manual for details. )
- \* 7 : OVP circuit will shutdown all outputs, manual reset.
- \* 8 : Refer to instruction manual for testing procedure.
- \* 9 : 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.
- \*10 : HKT160-5FF operation under output power 160W, when CH·V3 output current exceeds 1.5A, 5°C derating from the derating curve (shown in right) to be needed.

Derating curve (Vertical mounting)



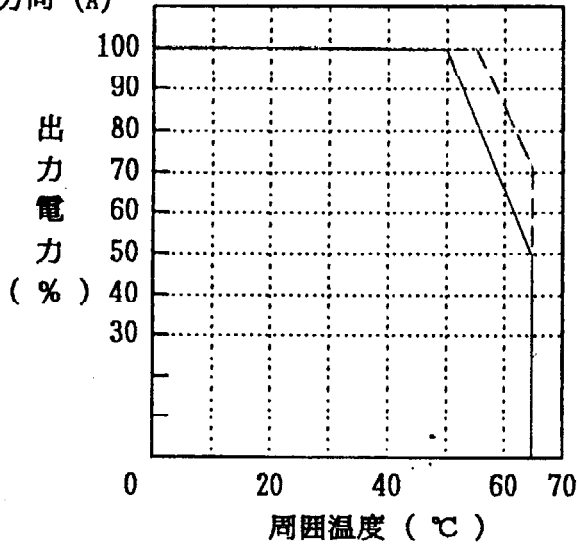
取付方向



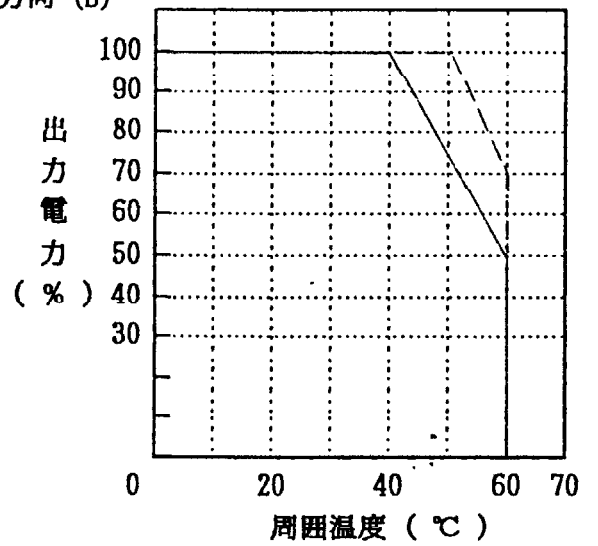
出力ディレーティングカーブ

自然空冷 ————  
強制空冷 - - - - -

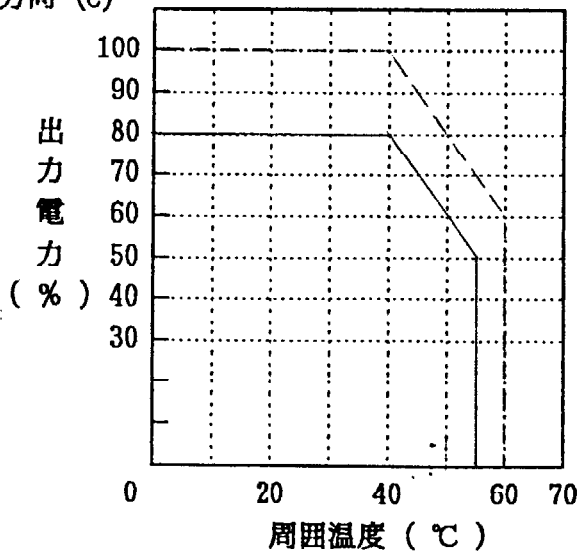
取付方向 (A)



取付方向 (B)



取付方向 (C)



取付方向 (D)

