PA778-01-01B

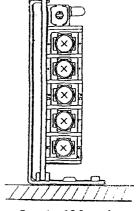
SPECIFICATIONS

!	Item	Mode		HK25A-5	HK25A-12	HK25A-15	HK25A-24	
1	Nominal Output Voltage		V	5	12	15	24	
2	Maximum Output Curren	t	Α	5.0	2.1	1.7	1.1	
3	Maximum Output Power		W	25.0	25.2	25.5	26.4	
4	Efficiency (Typ)	(*1)	%	72	76	77	80	
5	Input Voltage Range	(*2)	_	85-	132VAC (47-440)	Hz) or 110-175V	/DC	
6	Input Current (Typ) (*1) -			0.6A at 100VAC				
7	Inrush Current (Typ)	(*3)	_		15A at 1	00VAC		
8	Output Voltage Range		_		±10)%		
9	Maximum Ripple & Noise	;	mV	120	150	150	150	
10	Maximum Line Regulation		mV	20	48	6C	96	
11	Maximum Load Regulation	n (*5)	mV	40	96	120	150	
12	Over Current Protection	(*6)	-		105	$^{\sim}$		
13	Over Voltage Protection	(*7)	_		115% to	135%		
14	Hold-Up Time (Typ)	(*1)	-		20r	ns		
15			_		Poss	ible		
	Operating Temperature	(*8)	_		0°C to +50°C (10	0%), 60°C (50%))	
17	Operating Hundity		-		30% to	90% RH	-	
18	Storage Temperature		-		−30°C t	o +85°C		
19	Storage Humidity		_		10% to	95% RH		
20	Cooling		_		Convection	n Cooled		
21	Temperature Coefficient	(*9)	_		1% (Typ) at 0	°C to +50°C		
22	Withstand Voltage	(*10)		Inpu	t - Chassis , Input	Output: 2kVA	C (20mA)	
				Outp	ut - Chassis : 500	VAC (100mA) f	or 1min	
23	Isolation Resistanœ				1 Ohm at 25°C and			
24	Vibration		_	10-55Hz (swe	ep 1 min) less than	19.6m/s ² X,Y,Z 1	h each	
25	Shock		-1		Less than 1	96.1m/s ²		
	Safety		-	Approved	by UL1950 & CSA	234, Built to meet I	DENAN	
27	Conducted Radio Noise		-	Bu	ilt to meet FCC cl	ass B, VCCI - B		
28	Weight		\equiv		23	03		
29	Size (W.H.D.)		mm	28	. 68 . 95 (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) are required to be described as 100 120VAC, 50/60Hz on name plate.
- 3: Typical value on cold start, $Ta = 25^{\circ}C$.
- 4: From 85 to 132VAC or 110 to 175VDC, constant load.
- 5: From No Load to Full Load, constant input voltage.
- 6: Current limiting with automatic recovery.

 Avoid to operate over load or dead short for more than 30 seconds.
- 7: OVP circuit will shut down output, manual reset.
- 8: At standard mounting (vertical).
- 9: Constant input voltage & load.
- 10: Refer to instruction manual for testing procedure.



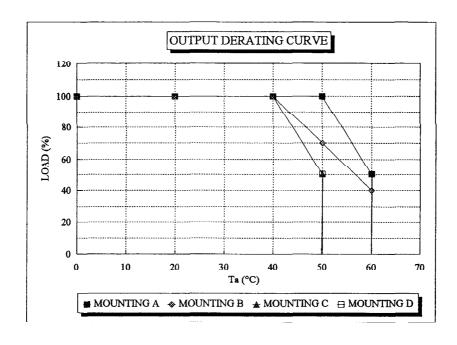
Standard Mounting

OUTPUT DERATING

HK25A-3, 5, 12, 15 &24

* COOLING: CONVENTION COOLING

			OOODALIO I GOLI	DITTION OCODETO			
	LOAD (%)						
Ta (°C)	MOUNTING: A	MOUNTING: B	MOUNTING : C	MOUNTING: D			
0	100	100	100	100			
20	100	100	100	100			
40	100	100	100	100			
50	100	70	50	50			
60	50	40	-				



 $\mathbf{MOUNTING}: \mathbf{A}$

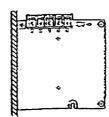
MOUNTING: B

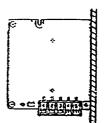
MOUNTING: C

MOUNTING: D









<u>HK25A</u>

SPECIFICATIONS

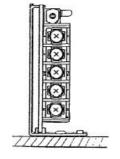
PA778-01-03B

ITEMS MODEL			HK25A-3	
1	Nominal Output Voltage		-	3.3V
2	Maximum Output Current		-	5.0A
3	Maximum Output Power		-	16.5W
4	Efficiency (Typ)	(*1)	-	70%
5	Input Voltage Range	(*2)	-	85~132VAC(47~440Hz) or 110~175VDC
6	Input Current (Typ)	(*1)	-	0.5A at 100VAC
7	In-rush Current (Typ)	(*3)	-	15A at 100VAC
8	Output Voltage Range		-	$\pm 10\%$
9	Maximum Ripple & Noise		-	120mV
10	Maximum Line Regulation	(*4)	-	20mV
11	Maximum Load Regulation	(*5)	-	$40\mathrm{mV}$
12	Over Current Protection	(*6)	-	105% ~
13	Over Voltage Protection	(*7)	-	115% to 135%
14	Hold-Up Time (Typ)	(*1)	-	20ms
15	Series Operation		-	Possible
16	Operating Temperature	(*8)	-	0° C to +50°C(100%), 60° C(50%)
17	Operating Humidity		-	30% to 90% RH
18	Storage Temperature		-	-30° C to $+85^{\circ}$ C
19	Storage Humidity		-	10% to 95% RH
20	Cooling		-	Convection Cooled
21	Temperature Coefficient	(*9)	-	1% (Typ) at 0° C to $+50^{\circ}$ C
22	Withstand Voltage	(*10)	-	Input-Chassis, Input-Output: 2kVAC (20mA)
				Output-Chassis: 500VAC (100mA) for 1min.
23	Isolation Resistance		-	More than 100MΩ at 25°C and 70% RH Output-FG 500VDC
24	Vibration		-	10-55Hz (sweep 1 min) less than 19.6m/s ² X,Y,Z 1 h each
25	Shock		-	Less than 196.1m/s ²
26	Safety			Built to meet UL1950,CSA234 & DENAN
27	Conducted Radio Noise		-	Built to meet FCC class B,VCCI-B
28	Weight			230g
29	Size (W.H.D)		mm	28×68×95 (Refer to Outline Drawing)

==NOTES==

- *1: At 100VAC & Maximum Output Power, $Ta = 25 \, ^{\circ}C$.
- *2: For cases where conformance to various safety specs (UL,CSA) are required to be described as 100-120VAC, 50/60Hz on name plate.
- *3: Typical value on cold start, Ta=25°C.
- *4: From 85 to 132VAC or 110 to 175VDC, constant load.
- *5: From No load to Full load, constant input voltage.
- *6: Current limiting with automatic recovery.

 Avoid to operate over load or dead short for more than 30 seconds.
- *7: Inverter shut down, manual reset.
- *8: At standard mounting. (vertical)
- *9: Constant input voltage & load.
- *10: Refer to instruction manual for testing procedure.



Standard Mounting