HK25A

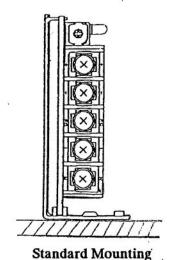
SPECIFICATIONS

PA778-01-01C

		Mode	1	HK25A-5	HK25A-12	HK25A-15	HK25A-24	
1	Nominal Output Voltage		V	5	12	. 15	24	
2	Maximum Output Current		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 (47-440Hz) or 110-175VDC				
6	Input Current (Typ)	(*1)	Market	0.6A at 100VAC				
7	Inrush Current (Typ) (*3)		, <u>-</u>	15A at 100VAC				
8	Output Voltage Range		mental)	±10%				
9	Maximum Ripple & Noise	Resident.	mV		150	150	150	
10	Maximum Line Regulation	(*4)	mV	20	48	60	96	
11	Maximum Load Regulation	(*5)	mν	40	96	120	150	
12	Over Current Protection	(*6)	-	105% ~				
13	Over Voltage Protection	(*7)	-	115% to 135%				
14	The state of the s	(*1)		20ms				
15	Series Operation —			Possible				
	Operating Temperature	(*8)	!		0°C to +50°C (10	0%), 60°C (50%	6)	
	Operating Hunddity		,-	li li	30% to	90% RH		
18	LOUIS CONTROL OF THE				-30°C t	o +85°C		
19	Storage Humidity			10% to 95% RH				
20	Cooling		a-4160001	Convection Cooled				
21	Temperature Coefficient	(*9)	-			°C to +50°C		
22	Withstand Voltage	(*10)	-	Inpu	t - Chassis, Input	- Output: 2kVA	C (20mA)	
				Outp	out - Chassis: 500	VAC (100mA) f	or 1min	
23			. APRILIP	More than 100M Ohm at 25°C and 70%RH Output-FG 500VDC				
24	100 State Control (100 State Con		enant*	10-55Hz (sweep 1 min) less than 19.6m/s ² X,Y,Z 1 h each				
25	Shock	1	MELLE		Less than 1	196.1m/s ²		
26	25 x 5 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		-		950-1 & CSA C22.2 N			
27	Conducted Radio Noise		-	Design	ned to meet FCC cl	ass B, VCCI - B		
28			1000	r.		0 3		
29	Size (W.H.D.)		mm	28	. 68 . 95 (Refer to	Outline Drawing	g) .	

* 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°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.

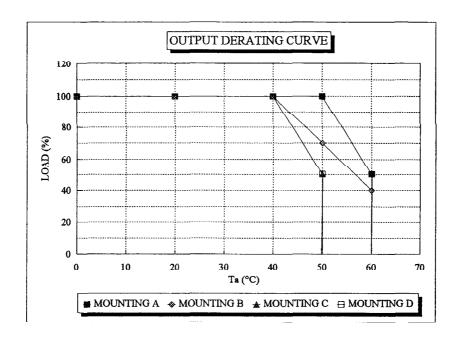


OUTPUT DERATING

HK25A-3, 5, 12, 15 &24

* COOLING: CONVENTION COOLING

	- COODATO: CONTRACTION COODAT							
	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	-					



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

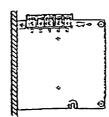
MOUNTING: B

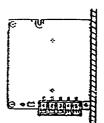
MOUNTING: C

MOUNTING: D









<u>HK25A</u>

SPECIFICATIONS

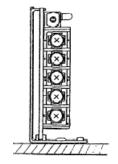
PA778-01-03C

ITEMS MODEI	1	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	-	±10%	
9 Maximum Ripple & Noise	-	120mV	
10 Maximum Line Regulation (*4		20mV	
11 Maximum Load Regulation (*5		40mV	
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°C	
19 Storage Humidity	-	10% to 95% RH	
20 Cooling	-	Convection Cooled	
21 Temperature Coefficient (*9) -	1%(Typ) at 0°C to +50°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		Designed to meet UL60950-1, CSA C22.2 No.60950 & DENAN	
27 Conducted Radio Noise -		Designed 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, $Ta = 25 \,^{\circ}\text{C}$.
- *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