

Linear	Desktop
Enclosed or L Bracket	Open Frame
PCB Mount	Rack Mount Hot Swap

# AC-DC Selector

Applications	# of Outputs	Output Power (W)												
		5	10	15	30	50	100	300	500	1000	1500	2500		
High Reliability Industrial (Five Year Warranty)	Single				NNS									
					HWS									
					JWS									
								LZSA						
	Dual				NND									
	Triple							JWT						
Industrial (Three Year Warranty)	Single & Multiple	HK-A (Single Output, 115VAC input)												
								NV						
					MTW									
								Vega			Alpha			
					LS									
Datacom Commercial (One - Two Year Warranty)	Single	KW, KPS, KM												
		ZWS, ZWSAF, ZWSPAF												
					DT									
					H									
					SC, SC120, ZP									
	Multiple				SWS									
								PFE			FPS (1U)			
											TH (1U)			
		KW, KM												
					LWD, LWT									
Programmable	Single				H									
					DT									
					SC, ZP									
								ZWD, ZWQ						
DIN Rail Mount	Single							ZUP						
					DSP, DPP, DLP-PU*									
								DLP						

\* See website

## Single Output 115VAC Input Industrial Power Supplies



- ◆ 3 Year Warranty
- ◆ Small size
- ◆ Approved to UL & CSA (cUL)
- ◆ 85 - 132VAC Input, 47-440Hz
- ◆ ±10% output adjustment

**RoHS**

### Key Market Segments & Applications

Factory Automation	Process Control, NC-Machining, Automotive, Packaging Equipment, Materials Handling, Chemical Processing, Robots
Test & Measurement	Burn-in & Test, Automated Test, Instrumentation, Measurement, Detection
Automated Service	Vending Machines, Elevators, Video Gaming, Point of Sale Equipment

### HK-A Features and Benefits

#### Feature

- ◆ 3 Year Warranty
- ◆ Adjustment potentiometer
- ◆ Low profile

#### Benefit

- ◆ Lower Cost of Ownership
- ◆ Reduces need for non standard models
- ◆ Smaller end system size

### Specifications

MODEL		HK10A	HK15A	HK25A	HK50A	HK100A	HK150A
ITEMS							
Input Voltage range	-	85 - 132VAC (47 - 440Hz) or 110 - 175VDC					
Inrush Current (100VAC)	A	20	30	15	30	15	15
Temperature Coefficient (Typ)	-	1% (over operating temperature range)					
Overcurrent Protection	-	>105%					
Overvoltage Protection	%	>115% (Zener clamp)			115 to 135%		
Hold Up Time (Typ at 100VAC)	ms	20					
Remote Sense	-	No				Yes	
LED Indicator	-	Green LED = On					
Operating Temp (no cover) (1)	-	0°C to +60°C, derate linearly to 50% load from 50°C to 60°C					
Operating Temp (w/ cover) (1)	-	0°C to +50°C, derate linearly to 50% load from 40°C to 50°C					
Storage Temperature	-	-30 to +85°C					
Operating Humidity	-	30 - 90% RH (non condensing)					
Storage Humidity	-	10 - 95% RH (non condensing)					
Cooling	-	Convection cooled					
Withstand Voltage	-	I/P to Grnd, I/P to O/P 2kVAC (20mA), O/P to Grnd 500VAC (100mA) for 1 min.					
Isolation Resistance	-	>100M at 25C & 70%RH, Output to Ground 500VDC					
Vibration (non operating)	-	10 - 55Hz (1 minute sweep), 19.6m/s <sup>2</sup> constant X, Y, Z 1 hour					
Shock	-	< 196.1 m/s <sup>2</sup>					
Safety Agency Approvals	-	UL60950-1, CSA C22.2 No. 60950-1 (cUL)					
Conducted & Radiated EMI	-	FCC Class B, VCCI-B					
Recommended EMI Filter	-	MAW12R522	MAW120122		MAW120222	MB1200	
Weight (Typ)	g	150	170	230	280	540	650
Size (WxHxD)	in	See sheet 2					
Warranty	-	Three Years					

(1) Vertical mount as photo, HK100A & HK150A models operate to -10°C  
See installation manual for full details, test methods of parameters and application notes

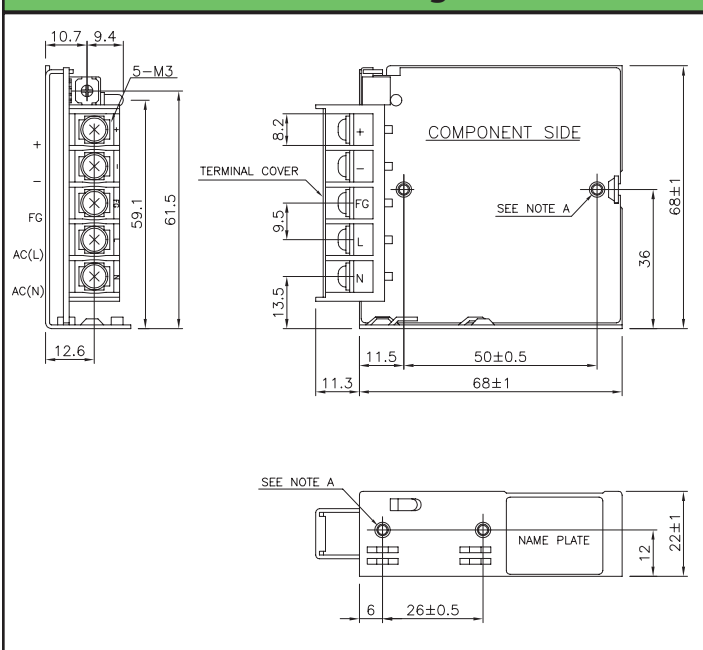
# HK-A Series

## Model Selector

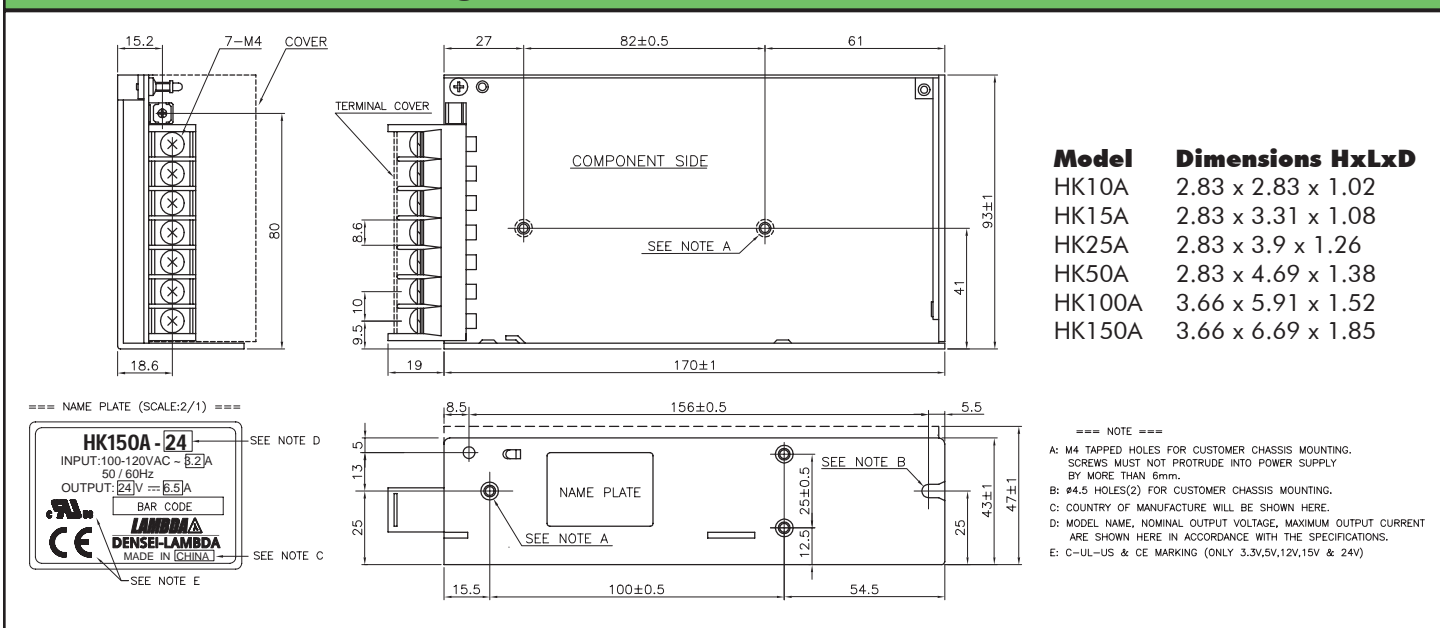
Model	Voltage	Adjust Range	Max Curr.	Load Reg mV	Line Reg mV	Ripple Noise (typ)%	Eff. (typ)%
HK10A-5/A	5	4.5 - 5.5	2.0	40	20	120	71
HK15A-5/A	5	4.5 - 5.5	3.0	40	20	120	69
HK25A-5/A	5	4.5 - 5.5	5.0	40	20	120	72
HK50A-5/A	5	4.5 - 5.5	10.0	40	20	120	79
HK100A-5/A	5	4.5 - 5.5	20.0	40	20	120	80
HK150A-5/A	5	4.5 - 5.5	30.0	40	20	120	80
HK10A-12/A	12	10.8 - 13.2	0.9	96	48	150	73
HK15A-12/A	12	10.8 - 13.2	1.3	96	48	150	74
HK25A-12/A	12	10.8 - 13.2	2.1	96	48	150	76
HK50A-12/A	12	10.8 - 13.2	4.2	96	48	150	81
HK100A-12/A	12	10.8 - 13.2	8.5	96	48	150	81
HK150A-12/A	12	10.8 - 13.2	12.5	96	48	150	81
HK10A-15/A	15	13.5 - 16.5	0.7	120	60	150	74
HK15A-15/A	15	13.5 - 16.5	1.0	120	60	150	75
HK25A-15/A	15	13.5 - 16.5	1.7	120	60	150	77
HK50A-15/A	15	13.5 - 16.5	3.4	120	60	150	82
HK100A-15/A	15	13.5 - 16.5	7.0	120	60	150	81
HK150A-15/A	15	13.5 - 16.5	10.0	120	60	150	81
HK10A-24/A	24	21.6 - 26.4	0.5	150	96	150	78
HK15A-24/A	24	21.6 - 26.4	0.7	150	96	150	77
HK25A-24/A	24	21.6 - 26.4	1.1	150	96	150	80
HK50A-24/A	24	21.6 - 26.4	2.2	150	96	150	84
HK100A-24/A	24	21.6 - 26.4	4.5	150	96	150	82
HK150A-24/A	24	21.6 - 26.4	6.5	150	96	150	82

Derate to 80% load from 0 to -10°C

## HK-10A Outline Drawing



## HK-150A Outline Drawing



## Options

Suffix	Description
Blank	No cover (Special order)
/A	With cover (Standard US stock)
LDIN30	DIN Rail Mounting Bracket (Sold Separately)

## Other Lambda Industrial Products

HWS	15W to 1500W Single output 85-265VAC
DLP/DPP/DSP	10W to 480W DIN rail mount 85-265VAC
ZWS	5W to 150W pcb style single output 85-265VAC
VSB/VSC	10W to 150W pcb style single output 85-132VAC