Single Output 115VAC Input Industrial Power Supplies

Features

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



Key Market Segments & Applications

Industrial Test

RoHS

Specifications

Model		HK10A	HK15A	HK25A	HK50A	HK100A	HK150A
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^2 constant X, Y, Z 1 hour					
Shock	-	< 196.1 m/s^2					
Safety Agency Approvals	-	UL60950-1, CSA C22.2 No. 60950-1 (cUL)					
Conducted & Radiated EMI	-	FCC Class B, VCCI-B					
Recommended EMI Filter	-	RSEL-20R5W	RSEL-2001W		RSEL-2002W	RSEN-2006	
Weight (Typ)	g	150	170	230	280	540	650
Size (WxHxD)	in	2.83x2.83x1.02	2.83x3.31x1.08	2.83x3.9x1.26	2.83x4.69x1.38	3.66x5.91x1.52	3.66x6.69x1.85
Warranty	-	Three Years					

(1) Vertical mount as photo, HK100A & HK150A models operate to -10°C

*Safety certified for AC only

See installation manual for full details, test methods of parameters and application notes

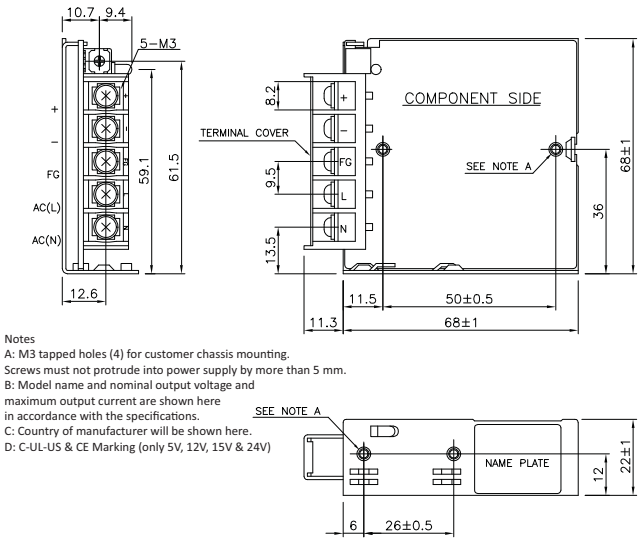
Not Recomended For New Designs

Model Selector

Model	Voltage	Adjust Range	Max Curr.	Load Reg mV	Line Reg mV	Ripple Noise	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

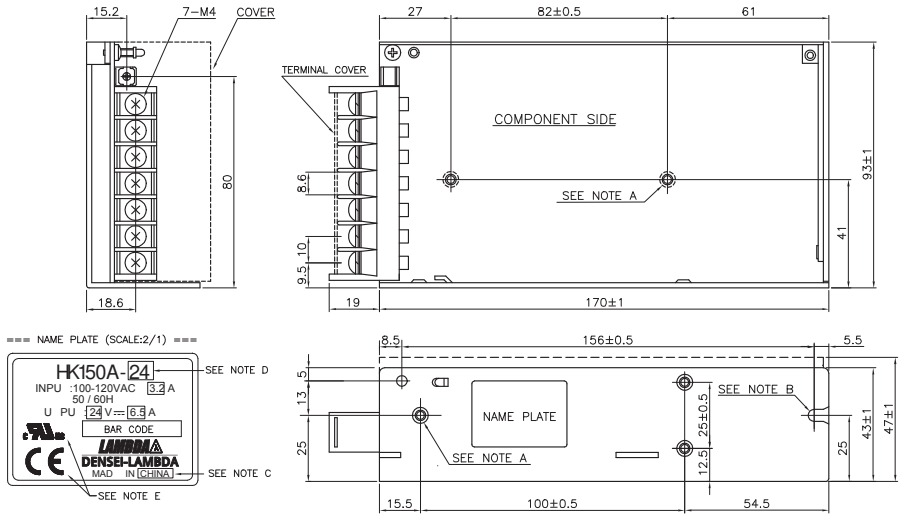
Derate to 80% load from 0 to -10°C

HK-10A Outline Drawing



Notes
A: M3 tapped holes (4) for customer chassis mounting.
Screws must not protrude into power supply by more than 5 mm.
B: Model name and nominal output voltage and
maximum output current are shown here
in accordance with the specifications.
C: Country of manufacturer will be shown here.
D: C-UL-US & CE Marking (only 5V, 12V, 15V & 24V)

HK-150A Outline Drawing



HK10A - HK50A M3 mounting holes
HK100A - HK150A M4 mounting holes
(See website for detailed outline drawings)

NOTE
A: M4 TAPPED HOLES FOR CUSTOMER CHASSIS MOUNTING. SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 6mm.
B: ø4.5 HOLES(2) FOR CUSTOMER CHASSIS MOUNTING.
C: COUNTRY OF MANUFACTURE WILL BE SHOWN HERE.
D: MODEL NAME, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.
E: C-UL-US & CE MARKING (ONLY 3.3V,5V,12V,15V & 24V)

Sample Configurations

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

Other 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

For Additional Information, please visit
us.tdk-lambda.com/lp/products/hka-series.htm

Not Recomended For New Designs