

Features

Universal Input 100–240VAC
 15V DC and 30V DC Single Output Models
 Up to 30W Output Power
 Meets Efficiency Level VI
 EN 62368-1, UL 62368-1 & AS/NZS 62368-1 Safety Approved
 FCC Part 15 Class B
 OVP, OCP, SCP

25HK-AB-xAz-DH6 Series

30W Desktop AC/DC Power Supply (PSU)



Image for illustration purposes only.



Description

Ideal Power's 25HK-AB-xAz-DH6 30W AC/DC Desktop Power Supply (PSU) Series is certified to UKCA, CE, TUV-GS, cULus, FCC, CCC and RCM and to EN/UL/AS/NZS 62368-1, and complies with RoHS and the (EU) 2019/1782 Level VI efficiency regulations. These are primarily used in ITE, audio and video industries and customised solutions are available upon request.

The series accepts a 100–240VAC, 47–63Hz input and provides a single regulated 15V DC or 30V DC output at up to 30W. The output is delivered on a UL 2468 #20 AWG cable, 6ft minimum, terminated in a centre-positive DC barrel plug.

Part Number Breakdown

25HK-AB	x	A	z	DH6
Series Name	Output Voltage	Segment Code	Output Current	Model Suffix

Models

Part Number	Output Voltage (V DC)	Output Current (A)	Output Regulation (V)	Output Power (W)	Efficiency (%)
25HK-AB-150A200-DH6	15	2.0	14.25–15.75	30	86.94
25HK-AB-300A100-DH6	30	1.0	28.5–31.5		

Input Specifications

Parameter	Min	Typical	Max	Units	Notes
Input Voltage	100	-	240	V AC	±10%
Input Frequency	47	-	63	Hz	50Hz–60Hz nominal
Input Current	-	-	0.8	A	100–240V AC input, full load
Inrush Current	-	-	60	A	100–240VAC input, max load, cold start at 25°C
Power Consumption	-	-	0.1	W	No load, tested after 30min operation

Output Specifications

Parameter	Min	Typical	Max	Units	Notes
Load Range	0.0	-	2.0	A	Refer to models table
Ripple & Noise	-	-	200	mVp-p	20MHz bandwidth
Line Regulation	-	±2	-	A	100–240V AC input, full load
Turn-on Delay Time	-	-	2	S	110V AC input, full load
Hold-up Time	10	-	-	S	110V AC input, full load

Protection

Parameter	Specification
Overcurrent Protection	Will recover if fault condition is removed
Short Circuit Protection	Will recover if fault condition is removed
Overvoltage Protection	Will recover if fault condition is removed

Environmental Characteristics

Parameter	Min	Typical	Max	Units	Notes
Operating Temperature	0	-	+40	°C	
Storage Temperature	-20	-	+70	°C	
Operating Humidity	10	-	95	%	
Relative Humidity	10	-	95	%	
Operating Environment	-	-	-	-	Indoor use, dry locations only

Safety Standards

Parameter	Specification
Safety Standards	EN/UL/AS/NZS 62368-1
Certifications	UKCA, CE, TÜV-GS, cULus, CCC, BSMI, KC, RCM (C-Tick), RoHS, REACH 15V also carries PSE
Dielectric Strength (Hi-Pot)	3000V RMS AC, 4mA max, 1 minute (type test), 2 seconds (production test)
Insulation Resistance	Primary to secondary: 50mΩ min at 500V DC test voltage
Label Markings	Class II, LPS (15V model label)

Electromagnetic Compatibility (EMC)

Parameter	Specification
EMI/EMC Standards	FCC Part 15 Class B EN 55032:2015 Class B, CISPR 32:2012 (Ed 2.0), AS/NZS CISPR 32:2015 EN 61000-3-2:2014, EN 61000-3-3:2013 IEC 61000-4-2:2008, IEC 61000-4-3:2006 +A1:2007 +A2:2010 IEC 61000-4-4:2012, IEC 61000-4-5:2014, IEC 61000-4-6:2013 IEC 61000-4-8:2009, IEC 61000-4-11:2004 +A1:2017 GB 17625.1-2012, GB 9254-2008 KN 32, KN 35 CNS 14336-1, J55032 (H29), J3000 (H25)

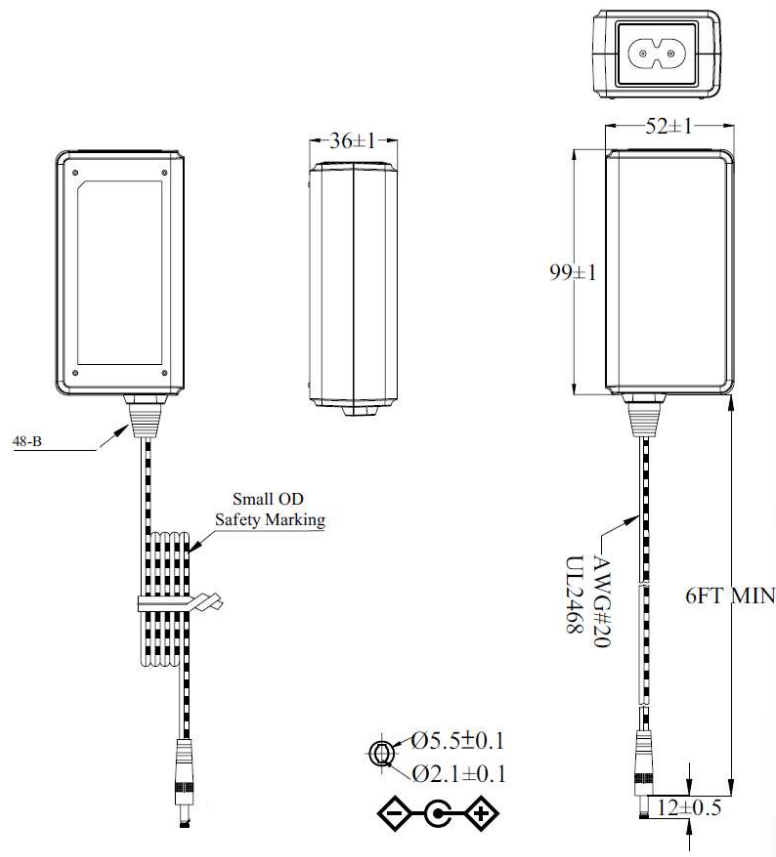
Reliability

Parameter	Min	Typical	Max	Units	Notes
Burn-in	2	-	-	Hrs	Normal input, 80% rated load, 40°C ±5°C
MTBF	-	100,000	-	Hrs	25°C, full load, nominal input

General Specifications

Parameter	Specification
Efficiency Level	Level VI, (EU) 2019/1782
Output Connector	DC plug: 2.5 x 5.5 x 12.0mm
Output Polarity	Centre positive
Output Cable	UL 2468 #20 AWG, 6ft minimum
Dimensions	99 x 52 x 36mm

Mechanical Drawing

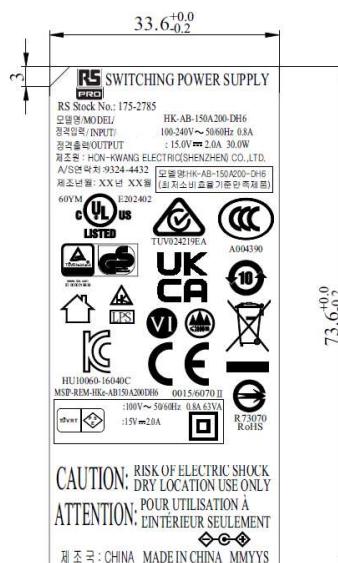


Case tolerance $\pm 1\text{ mm}$.

DC plug: outer $\varnothing 5.5 \pm 0.1\text{ mm}$, inner $\varnothing 2.1 \pm 0.1\text{ mm}$, barrel length $12 \pm 0.5\text{ mm}$.

Strain relief reference 48-B. Output cable carries a small OD safety marking.

Label Drawing



Representative label for the 25HK-AB-150A200-DH6. Input and output ratings vary by model.

Packaging

Parameter	Specification
Box Dimensions	120(L) x 60(W) x 52(H)mm

Notes

1. All dimensions are in mm unless otherwise stated.
2. In the part number, x is the output voltage in 0.1V steps (150 = 15.0V) and z is the output current in 0.01A steps (200 = 2.00A).