AC – DC

Features

- Universal Input 100~264V AC
- Approved to UKCA, CE, cULus, TUV-GS, RCM (C-Tick), FCC, RoHS
- UL/EN 60950-1 Safety Approved
- Meets Efficiency Level VI
- FCC Class B Certified
- Single Output 24V DC
- OVP, OCP, OTP, SCP

Ideal Power's 25HK-AB-xAz-DH6-RS 30W AC/DC External Desktop Power Supply (PSU) Series are certified to UKCA, CE, TUV-GS, cULus, RCM (C-Tick), CCC, RoHS & EN 62368-1/UL 62368-1 Standards and comply with (EU) 2019/1782, Level VI Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

Models

Model Number	Output Voltage (V dc)	Output Current (A)	Output Power (W)	Efficiency (%)
25HK-AB-150A200-DH6-RS	15	2	30	86.94
25HK-AB-300A100-DH6-RS	30	1	30	86.94

Input Data

	Min	Typical	Max	Units	Notes
Input Voltage	100	--	240	V ac	+/- 10%
Input Frequency	47	--	63	Hz	60Hz/50Hz Nominal
Input Current	--	--	0.8	A	at 100-240V ac input & Full load
Inrush Current	--	--	60	A	at 100-240Vac input and Max load for a cold start at 25ºC
Power Consumption	--	--	0.1	W	tested after No load operating for 30min

Output Data

	Min	Typical	Max	Units	Notes
Regulation	14.25	--	31.5	V	Model dependant
Load Range	0.0	--	2.0	A	
Ripple & Noise	--	--	200	mVp-p	@20MHz bandwidth
Line Regulation	--	±2	--	A	@ 100 Vac to 240 Vac input & Full load
Turn-on Delay Time	--	--	2	S	@110 V ac full load
Hold-up Time	10	--	--	S	@110 V ac full load

Protection Requirements

	Min	Typical	Max	Units	Notes
Over Current Protection	--	--	--	A	Will recover if fault condition is removed
Short Circuit Protection					Will recover if fault condition is removed
Over Voltage Protection					Will recover if fault condition is removed

Environmental Data

	Min	Typical	Max	Units	Notes
Operating Temperature	0	--	+40	ºC	
Storage Temperature	-20	--	+70	ºC	
Operating Humidity	10	--	95	%	
Relative Humidity	10	--	95	%	

Reliability Requirements

	Min	Typical	Max	Units	Notes
Burn-in	2	--	--	Hrs	Under normal input and 80% rated load at 40℃ ± 5℃
MTBF	--	100,000	--	Hrs	@25ºC Full load and nominal input
Dielectric Strength	--	--	4	mA	AC 3000 Vrms ,4mA,1minute for type test, 2 second for production test.
Insulation Resistance	50	--	--	mΩ	@primary to secondary: 500Vdc test voltage

EMI/EMC Standards

	Test Level
EMI/EMC	FCC PART 15 Class B GB17625.1-2012; GB 9254-2008 KN 32 KN 35 EN 55032: 2015, Class B CISPR 32: 2012 (Ed 2.0) 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 AS/NZS CISPR 32: 2015 CNS 14336-1, J55032(H29) J3000(H25)

Safety Approvals

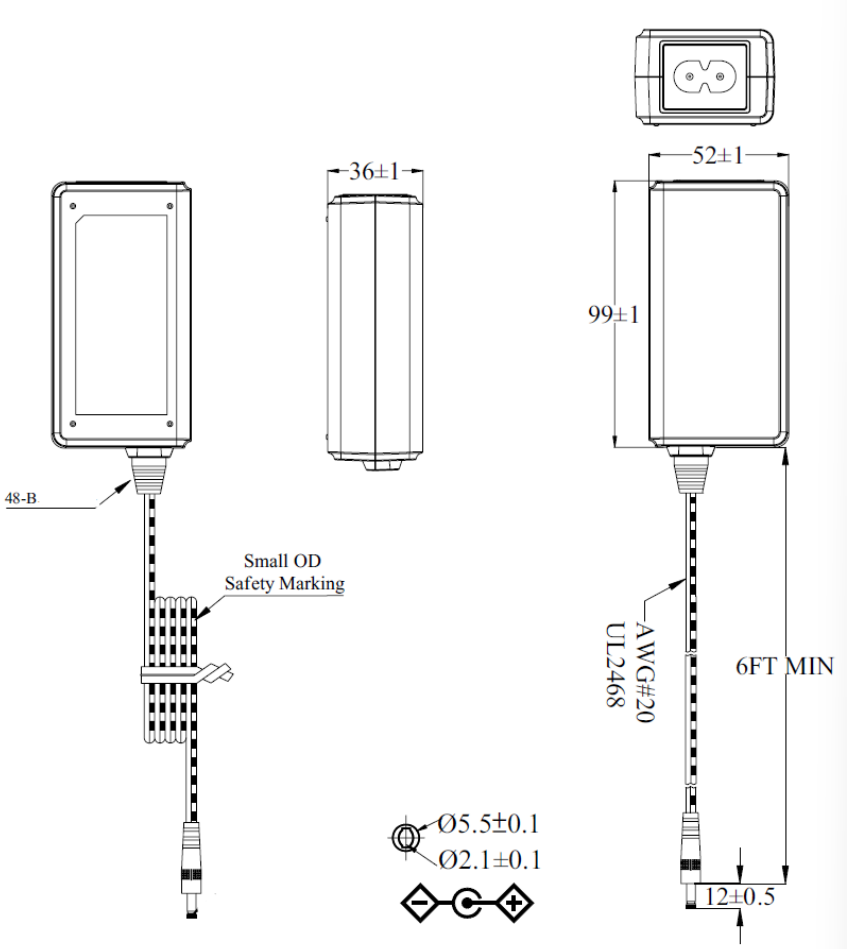
	Safety Standards
Safety Standards	EN/UL/AS/NZS 62368-1
Approvals	UKCA, CE, TUV-GS, cULus, RCM (C-Tick), CCC, RoHS

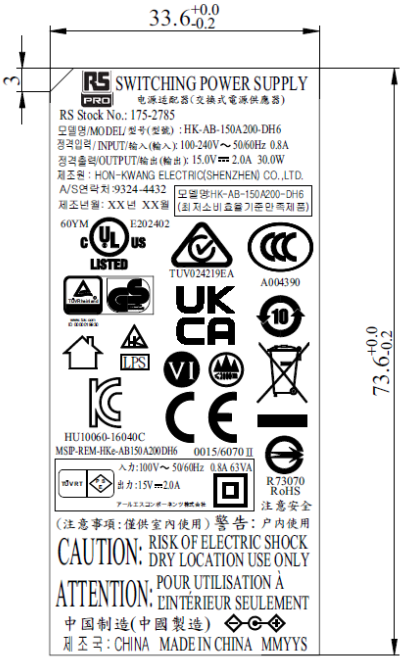
Product Information

	Notes
Dimensions	99x52x36mm
Output Connector	DC Plug: 2.5 x 5.5 x 12.0mm

AC – DC

Mechanical Drawing & Label





Packaging Label

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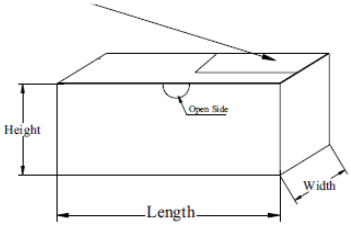
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