

## 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-DH 30W AC/DC External Desktop Power Supply (PSU) Series are certified to UKCA, CE, cULus, TUV-GS, RCM (C-Tick), FCC, RoHS & UL 60950-1/EN 60950-1 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-240A125-DH	24	1.25	30	83.6

### 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	--	--	50	A	at 100-240Vac input and Max load for a cold start at 25°C
Energy Consumption	--	--	0.3	W	While input 115Vac or 230Vac and the output is no load

**Output Data**

	Min	Typical	Max	Units	Notes
Output Current Range	0.0	--	1.25	A	
Output Voltage Range	22.8	--	25.2	V	
Ripple & Noise	--	--	500	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	°C	
Storage Temperature	-20	--	+70	°C	
Operating Humidity	10	--	90	%	non condensing
Relative Humidity	5	--	95	%	non condensing

**Reliability Requirements**

	Min	Typical	Max	Units	Notes
Burn-in	2	--	--	Hrs	Under normal input and 80% rated load at 40°C ± 5°C
MTBF	50.000	--	--	Hrs	@25°C 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/EMS Standards**

	Test Level	Test Criteria
EMI	EN 55032, FCC Part 15	Class B
EMS	EN 55022	
ESD	EN61000-3-2:2006/A2:2009 EN61000-3-3:2008 EN55024:2010/AC:2011 IEC61000-4-2:2008 IEC61000-4-3:2006/A1:2007/A2:2010 IEC61000-4-4:2012 IEC61000-4-5:2005 IEC61000-4-6:2008 IEC61000-4-8:2009 IEC61000-4-11:2004	

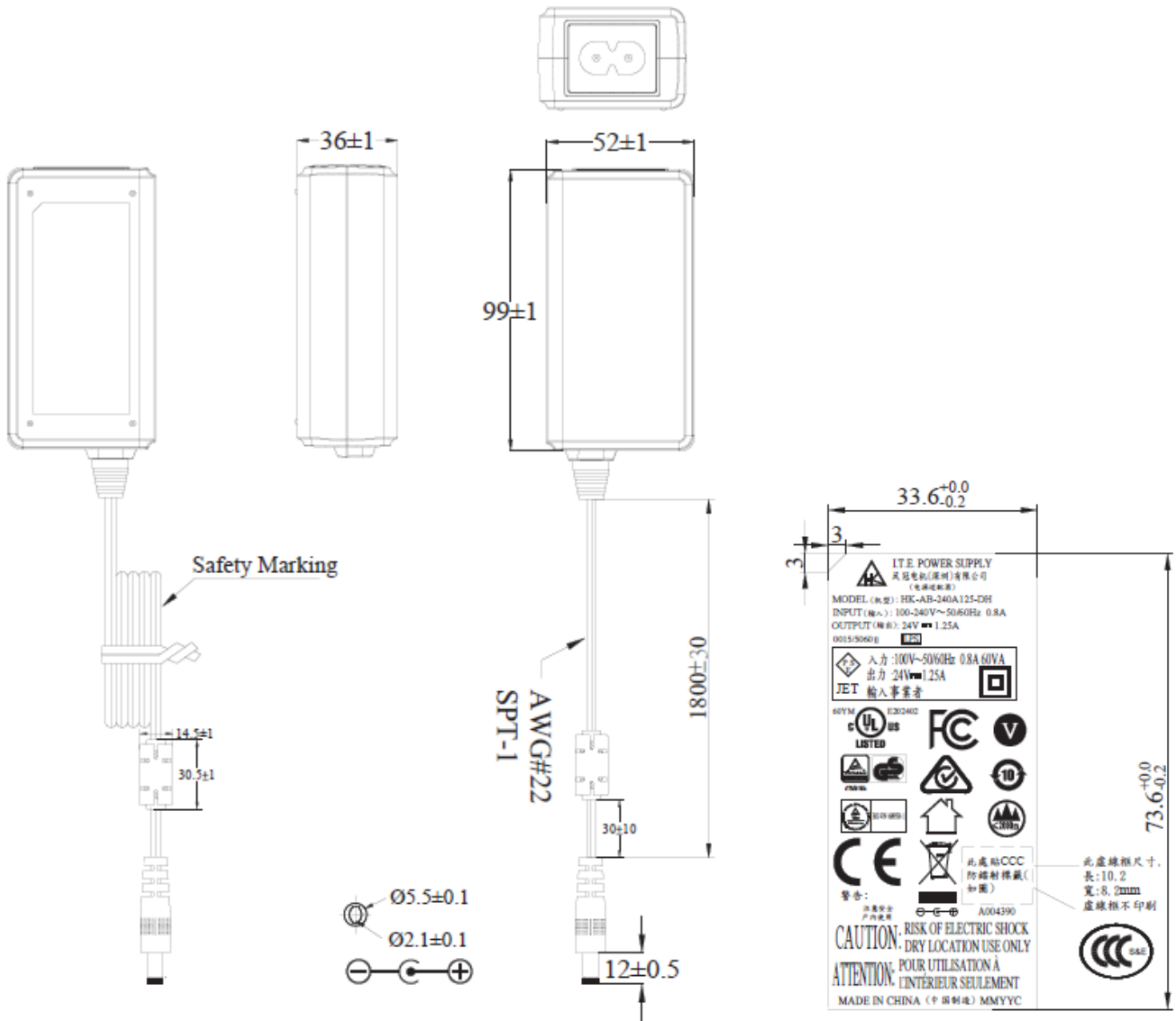
**Safety Approvals**

	Safety Standards
Safety Standards	EN/UL/AS/NZS 60950-1
Approvals	UKCA, CE, cULus, TUV-GS, RCM (C-Tick), FCC, RoHS

Product Information

	Notes
Dimensions	99x52x36mm
Output Cord	22AWG, 1.8M Black
Output Connector	DC Plug: 2.5 x 5.5 x 12.0mm

Mechanical Drawing & Label



AC - DC