

Features

- Universal input 100-240VAC
- Approved to UKCA, CE, TUV-GS, RCM (C-Tick), FCC, RoHS
- EN/IEC 62368-1 Safety Approved
- Meets Efficiency Level VI
- FCC Class B Certified
- Single Output 18~24V dc
- OVP, OCP, OTP, SCP



Ideal Power's 25HK-BE-xAz-D5-RS 40W AC/DC External Desktop Power Supply (PSU) Series are certified to UKCA, CE, RoHS, REACH & EN 62368-1/IEC 62368-1/UL 62368-1 Standards and comply with the relevant 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-BE-180A222-D5	18	2.22	40	87.6
25HK-BE-240A133-D5	24	1.33	40	87.1

Input Data

	Min	Typical	Max	Units	Notes
Input Voltage	100	--	24	V AC	100-240VAC +/- 10%
Input Frequency	47	--	63	Hz	50-60Hz +/- 5%
Input Current	--	--	1.0	A	
Inrush Current	0	--	50	A	At cold start, 100 / 240V AC

Output Data

	Min	Typical	Max	Units	Notes
Output Current Range	0.0	--	2.22	A	
Output Voltage Range	17.1	--	25.2	V	
Ripple & Noise	--	--	200	mVp-p	
Line Regulation	--	--	±2	%	
Turn-on Delay Time	--	--	2	S	At 110VAC full load.
Hold-up Time	10	--	--	mS	At 110VAC full load.

Protection Requirements

	Min	Typical	Max	Units	Notes
Input Protection	--	--	6.3	A	Will recover if fault condition is removed
Short Circuit Protection					Will recover if fault condition is removed
Output 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	--	95	%	Operating 10% to 90%
Storage Humidity	10	--	95	%	Storage 5% to 95%

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	--	--	5	mA	4242Vdc / 60s (3s for mass production)
Leakage Current	--	--	0.25	mA	@ 264Vac / 50H
Insulation Resistance	50	--	--	mΩ	@primary to secondary add 500Vdc test voltage

EMC Emissions (2014/30/EU)

	Standard	Test Level	Criteria	Notes
Conducted	EN 55032	Pass	B	EMC Directive 2014/30/EU
Radiated	EN 55032	Pass	B	
Harmonic Standard	EN 61000-3-2		Class D	
Voltage fluctuation	EN 6100-3-3	Pass		Voltage fluctuations & Flicker

EMC Immunity (2014/30/EU)

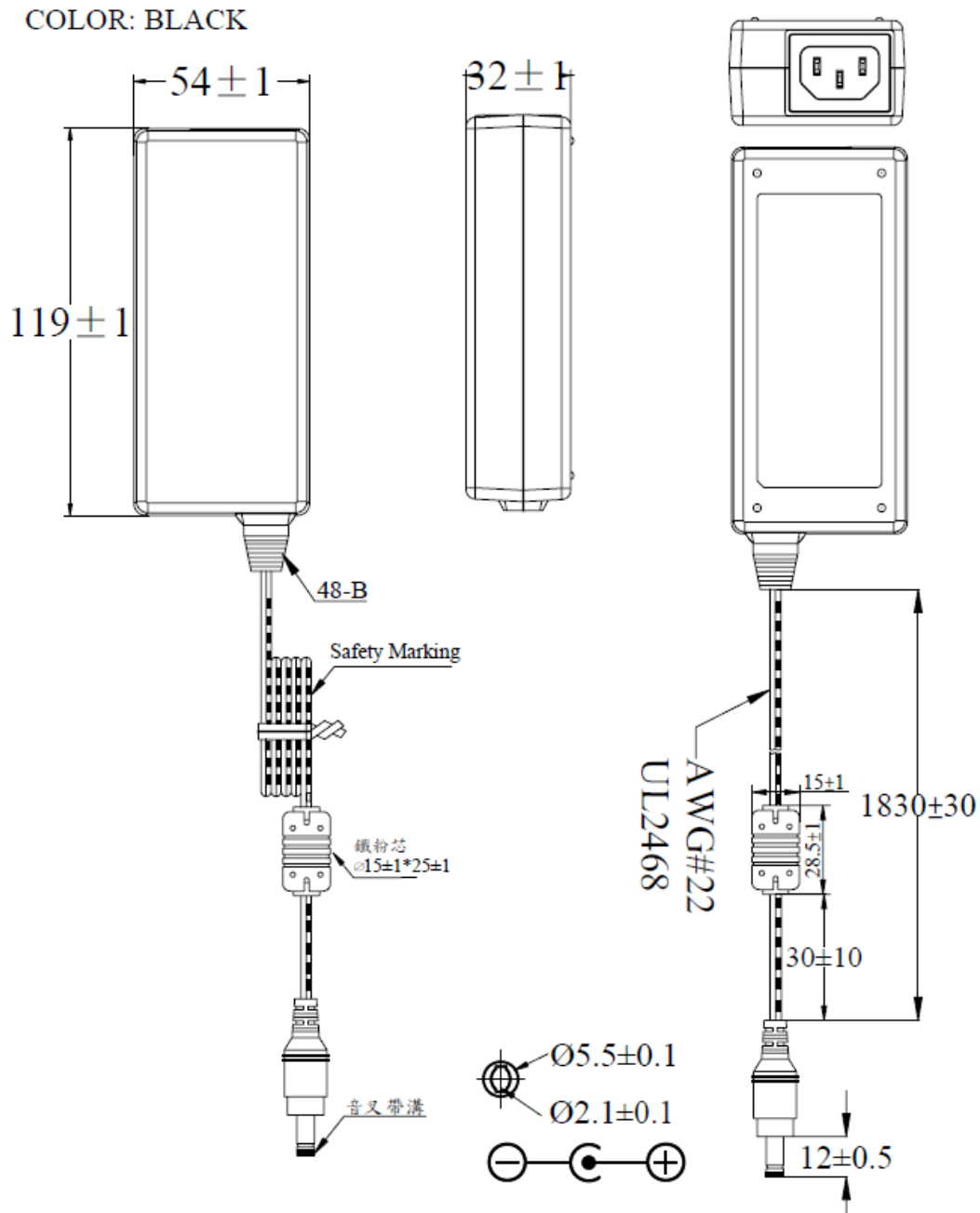
	Standard	Criteria	Notes
ESD	IEC 61000-4-2	B	Contact: +/- 4KV; Air: +/- 8KV
RS	IEC 61000-4-3		Frequency: 80-1000MHz; Field Strength: 3V/M ' 80% AM (1KHz)
EFT	IEC 61000-4-4	A/B	0.5/1.0KV on input AC power ports
Surge	IEC 61000-4-5	A	Line to Line: +/- 1KV (peak); Line to F.G: +/- 2KV (peak)
Conducted	IEC 61000-4-6		CS: 0.15~ 80MHz, 3Vrm, 80% AM, 1kHz
PFMF	IEC 61000-4-8		50 Hz or 60Hz, 1A/m
Dips and Interruptions	IEC 61000-4-11		V/D: >95% reduction for 0.5 period VI:>95% reduction for 250

Safety Approvals

Safety Standards

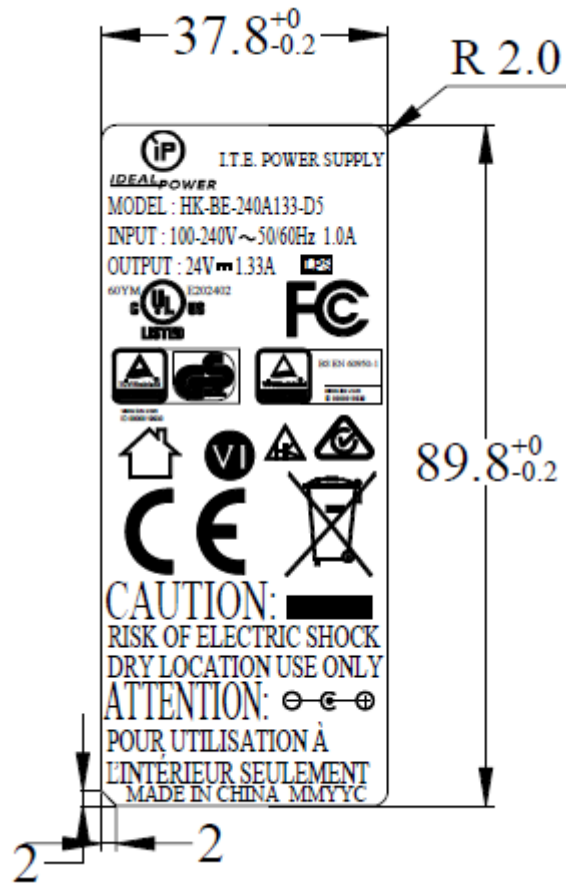
Safety Standards	EN/UL 60950-1
Approvals	UKCA, CE, TUV-GS, RCM (C-Tick), FCC, RoHS

Mechanical Drawing



AC - DC

Label



AC – DC