

## Features

- Universal input 100-240VAC
- Approved to CE, cULus, RCM (C-Tick), RoHS & REACH
- EN/IEC 62368-1 Safety Approved
- Meets Efficiency Level VI
- FCC Class B Certified
- Single Output 5-24V DC
- OVP, OCP, OTP, SCP



Ideal Power's 25HK-AY-xAz-DH 24W AC/DC External Desktop Power Supply (PSU) Series are certified to CE, cULus, TUV, RCM (C-Tick), RoHS, REACH & UL/IEC/EN 62368-1 Standards and comply with Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

### Models

Model Number	Output Voltage	Output Current	Output Power
25HK-AY-050A300-DH	5V DC	3A	15W
25HK-AY-059A300-DH	5.9V DC	3A	17.7W
25HK-AY-060A300-DH	6V DC	3A	18W
25HK-AY-090A266-DH	9V DC	2.66A	23.9W
25HK-AY-100A200-DH	10V DC	2A	20W
25HK-AY-120A200-DH	12V DC	2A	24W
25HK-AY-150A160-DH	15V DC	1.6A	24W
25HK-AY-240A100-DH	24V DC	1A	24W

### Input Data

	Min	Typical	Max	Units	Notes
Input Voltage	90	--	264	V AC	100-240VAC +/- 10%
Input Frequency	47	--	63	Hz	50-60Hz +/- 5%
Input Current	--	0.8	--	A	
Inrush Current	0	--	60	A	At cold start, 100 / 240V AC
Leakage Current	--	--	0.25	mA	

### Output Data

	Min	Typical	Max	Units	Notes
Output Voltage	--	5	--	%	
Ripple & Noise	--	--	200	mV	
Over Current Protection	Overload conditions shall decrease the				
Short Circuit Protection	Auto Recovery				
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	--	95	%	Operating 10% to 90%
Storage Humidity	10	--	95	%	Storage 5% to 95%

**Other Information**

	Min	Typical	Max	Units	Notes
Isolation	--	--	--	--	AC 3000Vrms, 4mA, 1 Minute for type test.
MTBF	--	50,000	--	hrs	
Weight				200 +/-10g	
Dimensions				Refer to mechanical drawings	

**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 A	
Voltage fluctuation	EN 6100-3-3	Pass		Voltage fluctuations & Flicker

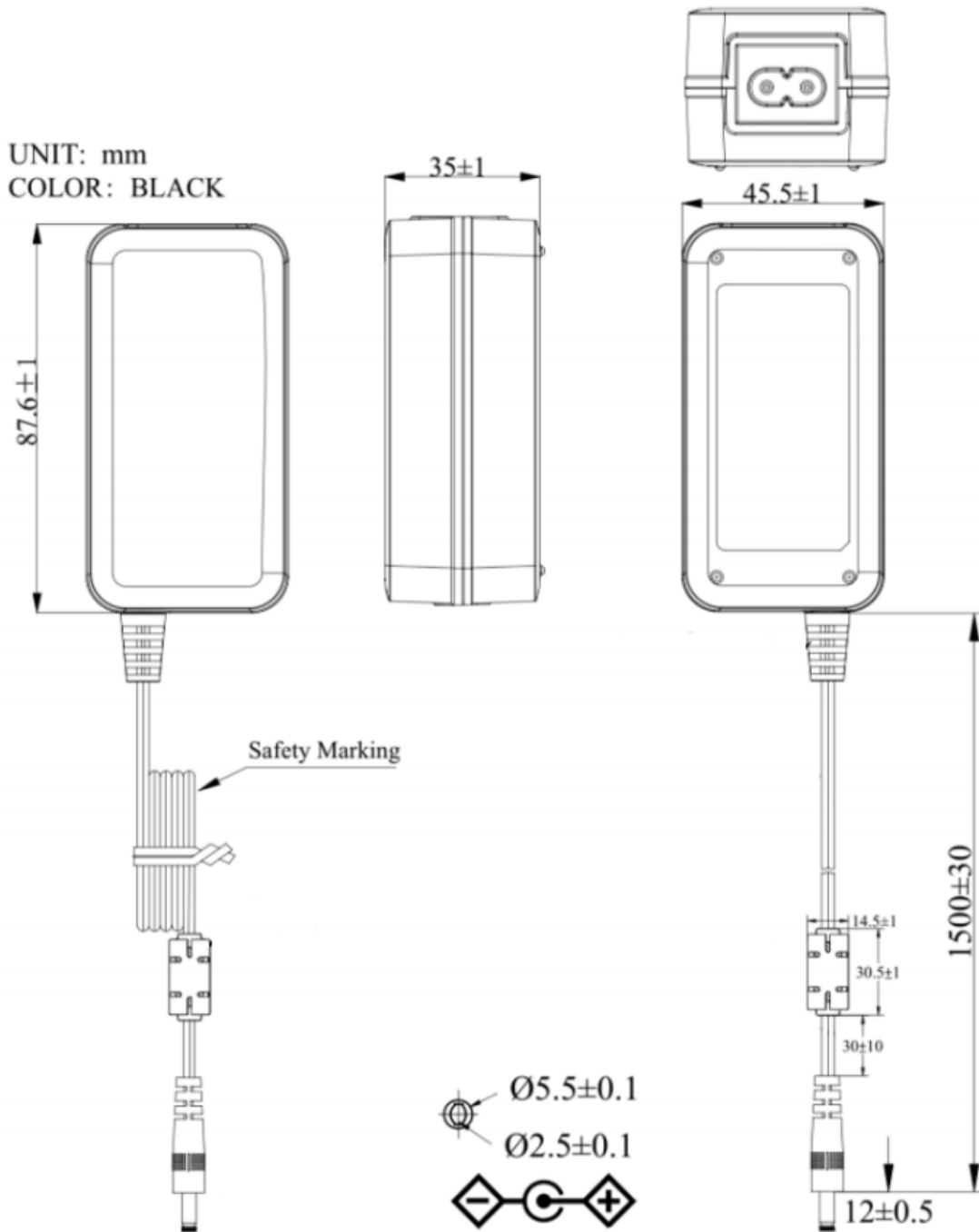
**EMC Immunity (2014/30/EU)**

	Standard	Test Level	Notes
ESD	IEC 61000-4-2	Pass	Contact: +/- 4KV; Air: +/- 8KV
RS	IEC 61000-4-3		Frequency: 80-1000MHz; Field Strength: 3V/M ' 80% AM (1KHz)
EFT	IEC 61000-4-4		0.5/1.0KV on input AC power ports
Surge	IEC 61000-4-5		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 period.

**Safety Approvals**

Safety Standards	
RoHS/REACH	RoHS Directive (EU) 2015/863 & REACH (205 SVHC)
CE LVD Directive 2014/35/EU	Yes (UK/European)
cULus	Yes –(US)
TUV	Yes (German/European)
RCM & C-Tick	Yes – (Australian)

Mechanical Drawing



AC - DC