

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 peroid.

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

