

Features

- Universal input 100-240VAC
- Approved to UKCA, CE, cULus, RCM (C-Tick)
RoHS & REACH
- UL/EN/IEC 62368-1 Safety Approved
- Meets Efficiency Level VI
- FCC Class B Certified
- Single Output 5-30V DC
- OVP, OCP, OTP & Short Circuit



Ideal Power's 15DYS836-xyW-2.5 40W AC/DC External Desktop Power Supply (PSU) Series are certified to UKCA, 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
15DYS836-050500W-2.5	5VDC	5A	20W
15DYS836-075426W-2.5	7.5VDC	4.26A	31.95W
15DYS836-090400W-2.5	9VDC	4A	36W
15DYS836-120333W-2.5	12VDC	3.33A	40W
15DYS836-150266W-2.5	15VDC	2.66A	40W
15DYS836-180222W-2.5	18VDC	2.22A	40W
15DYS836-240166W-2.5	24VDC	1.66A	40W
15DYS836-240166W-2.5	30VDC	1.33A	40W

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			1	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	1		6	%	
Over Current Protection					Over Current Point Limited >2.16A
Short Circuit Protection					Continuous short circuit proof. Will recover if fault condition is removed
Over Voltage Protection					Will recover if fault condition is removed

Ideal Power Limited

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Environmental Data

	Min	Typical	Max	Units	Notes
Operating Temperature	0		+40	°C	
Storage Temperature	-20		+80	°C	
Operating Humidity	10		90	%	Operating 10% to 90%
Storage Humidity	5		95	%	Storage 5% to 95%

Other Information

	Min	Typical	Max	Units	Notes
Isolation					Primary to Secondary: 4242VDC/5mA _{Max} (3 seconds)
MTBF		50,000		hrs	At 25°C, Full load and nominal
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 D	P.F. shall >0.95 @100Vac input and >0.9 @240Vac input

EMC Immunity (2014/30/EU)

	Standard	Test Level	Criteria	Notes
EMS	EN 55035			
EMS	EN 61204-3			
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				
PFMF				
Dips and Interruptions				

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
TUV	Yes
RCM & C-Tick	Yes

Mechanical Drawing

