AC – DC

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, SCP



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), FCC, 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

Environmental Data

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

Other Information

	Min	Typical	Max	Units	Notes
Isolation	--	--	--		Primary to Secondary: 4242VDC/5mAMax (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

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Mechanical Drawing

