



- Universal Input 100~240VAC 50/60Hz
- UL/IEC/EN 62368-1 Approved
- Compliant to LVD & EMC safety standards
- RoHS & CE Directive Compliant
- Level VI efficiency
- OVP, OCP, OTP & Short Circuit Protection
- 2.5mm barrel

The purpose of the document is to specify a Single-phase AC input, single output switching power supply. This specification is suitable for: 15DYS836-xyW-2.5 40W Series. This product is AC to DC switching power supply, it can provide 5-30V 40W max DC output constant voltage source. This Specification defines the input, output, performance characteristics, environment, noise and safety

Models

Model Number	Output Voltage	Output Current	Output Power
15DYS836-050500W-2.5*	5V DC	5A	25W
15DYS836-075426W-2.5	7.5V DC	4.26A	31.95W
15DYS836-090400W-2.5	9V DC	4A	36W
15DYS836-120333W-2.5	12V DC	3.33A	40W
15DYS836-150266W-2.5	15V DC	2.66A	40W
15DYS836-180222W-2.5	18V DC	2.22A	40W
15DYS836-240166W-2.5	24V DC	1.66A	40W
15DYS836-300133W-2.5	30V DC	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 tolerance		5		%	*Tolerance is ± 6%
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

	Minimum	Typical	Maximum	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

	Minimum	Typical	Maximum	Units	Notes
Dielectric Strength					Primary to Secondary: 4242VDC/5mA Max (3 seconds)
MTBF		50,000		hrs	At 25°C, Full load and nominal
Weight	200 +/-10g Depending on model				
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

