



- 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 9-30V 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	20W
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		%	
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

