



- 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 DC Connector
- Right Angled Cable Connector

The purpose of the document is to specify a Single-phase AC input, single output switching power supply. This specification is suitable for: 15DYS812-xyS-Z-2.5 12W Series. This product is AC to DC switching power supply, it can provide 5-24V 12W 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
15DYS812-050210S-z-2.5	5V DC	2.1A	10.5W
15DYS812-075150S-z-2.5	7.5V DC	1.5A	11.25W
15DYS812-090133S-z-2.5	9V DC	1.33A	12W
15DYS812-120100S-z-2.5	12V DC	1A	12W
15DYS812-150080S-z-2.5	15V DC	0.8A	12W
15DYS812-180067S-z-2.5	18V DC	0.67A	12W
15DYS812-240050S-z-2.5	24V DC	0.5A	12W

'z' can be: 1 = US, 2 = EU, 3 = UK, AUS = 4

### 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		0.35		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		150		mVp-p	
Over Current Protection					Over Current Point Limited >2.31A
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
Isolation					2KVdc, between primary and secondary circuit
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 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) – Only applicable for UK & EURO plugs. (-1) (-2)
cULus	Yes – Only applicable for US plug. (-1)
TUV	Yes (German/European) – Only applicable for EURO plug. (-2)
RCM & C-Tick	Yes – Only applicable for Australian plug. (-4)

Mechanical Drawing



