AC – DC

Features

- Universal input 90-264VAC
- Approved to UKCA, CE, TUV-GS, cULus, RCM (C-Tick), FCC, RoHS, REACH
- UL/IEC/EN 62368-1 Safety Approved
- Meets Efficiency Level VI
- EMC Class B Certified
- Single Output 12-48V DC
- OVP, OCP, OTP, SCP



Ideal Power's 15DYS890-xxxyyyG 96W AC/DC External Desktop Power Supply (PSU) Series are certified to UKCA, CE, TUV-GS, cULus, RCM (C-Tick), FCC, RoHS, REACH & EN 62368-1/IEC 62368-1/UL 62368-1 Standards and comply with (EU) 2019/1782, Level VI Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

Models

Model Number	Output Voltage (V DC)	Output Current (A)	Output Power (W)	Efficiency (%)
15DYS890-120750G-RS-2.5	12	7.5	90	88
15DYS890-240400G	24	4	96	88
15DYS890-480200G-RS-2.5	48	2	96	88

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	--	--	1.5	A	
Inrush Current	--	--	80	A	At cold start, 100 / 240V AC
Leakage Current	--	--	0.25	mA	

Output Data

	Min	Typical	Max	Units	Notes
Ripple & Noise	200	--	240	mVp-p	Model dependant
Turn-on Delay Time	3S max. @ 100 Vac to 240 Vac input & Full load				
Hold-up Time	5mS min. @ Full load &100Vac/60Hz input turn off at worst case				
Over Current Protection	Over Current Point Limited 12V >9.75A / 24V >5.2A / 48V >2.6A Will recover if fault condition is removed				
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%
Vibration	10	--	300	Hz	sweep at a constant acceleration of 1.0G (Breadth: 3.5mm) for 1Hour for each of the perpendicular axes X, Y, Z

Other Information

MTBF	50,000hrs At 25°C, Full load, and nominal
Isolation	Primary to Secondary: 4242VDC/5mAMax (3 seconds)
Dimensions	Refer to mechanical drawings

EMI/EMS Immunity (2014/30/EU)

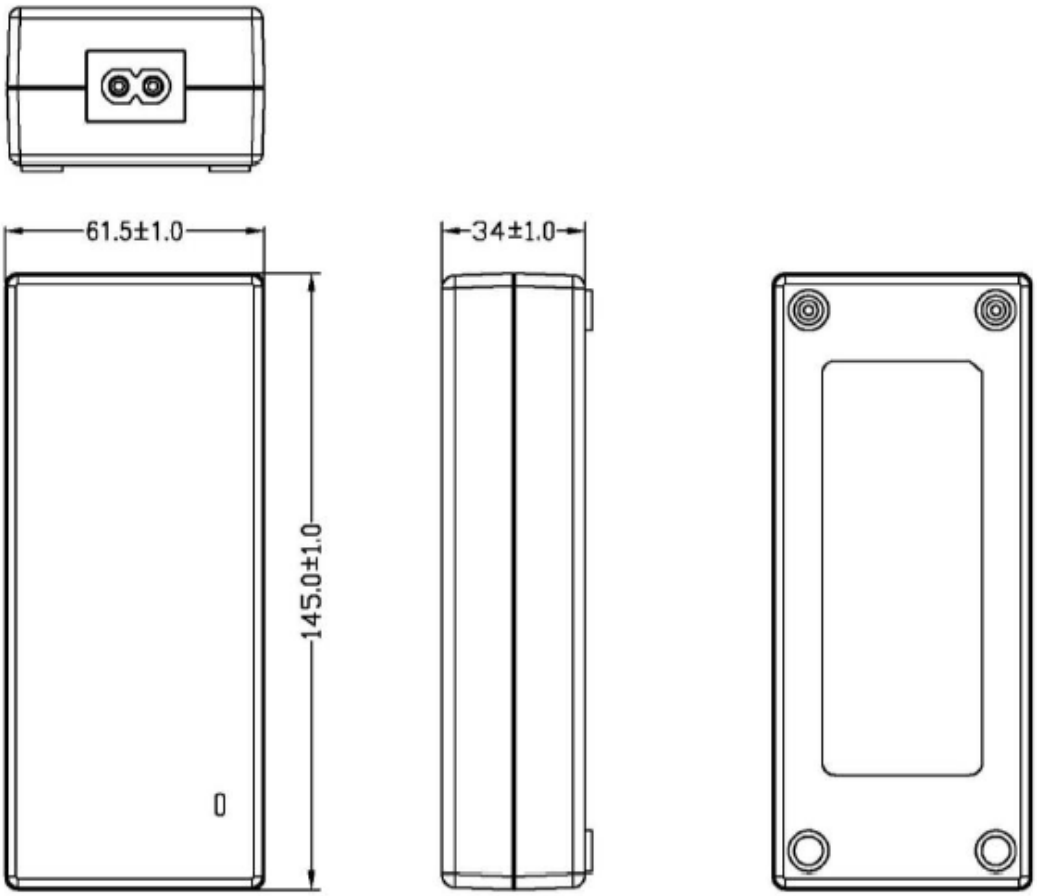
	Standard	Test Level	Criteria	Notes
EMI	EN 55032			
EMS	EN 55035			
ESD	IEC 61000-4-2		B	Contact: +/- 4KV; Air: +/- 8KV
EFT	IEC 61000-4-4		A/B	0.5/1.0KV on input AC power ports
Surge	IEC 61000-4-5		A	Line to Line: +/- 1KV (peak); Line to F.G: +/- 2KV (peak)

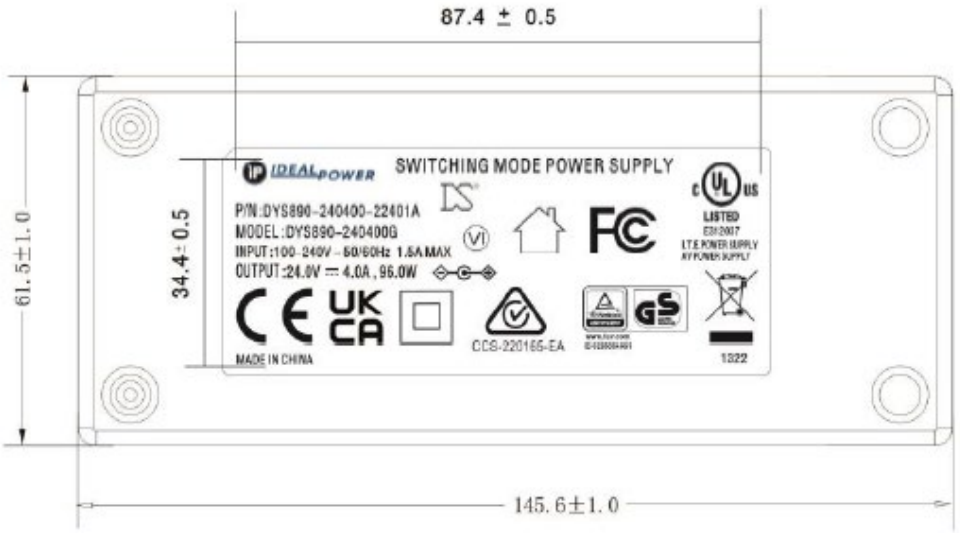
Safety Approvals

	Safety Standards
RoHS/REACH	RoHS Directive (EU) 2015/863 & REACH EC 1907/2006
CE LVD Directive 2014/35/EU	Yes (UK/European)
UKCA	BS EN 62368-1
cULus	UL 62368-1
TUV-GS	EN 62368-1
RCM (C-Tick)	AS/NZS 62368.1

AC – DC

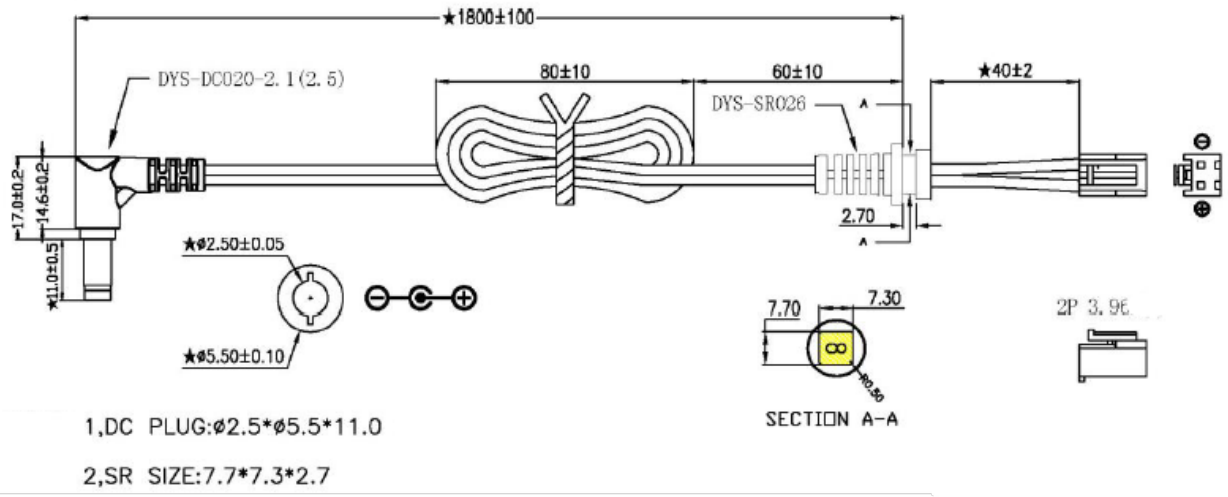
Mechanical Drawing & Label





Cable Drawing

Image shown is 15DYS890-240400G - Other models vary as per table below.



Model Number	Output Cable
15DYS890-120750G-RS-2.5	1.2m UL2468 14AWG
15DYS890-240400G	1.8m UL2468 18AWG
15DYS890-480200G-RS-2.5	1.5m UL2468 20AWG