

## Features

- Universal Input 90~264V AC
- Interchangeable Plugtop Adapters
- Approved to UKCA, CE, CCC, TUV-GS, RCM (C-Tick), FCC, RoHS & REACH
- Safety standards to IEC/EN/UL 60950-1
- Single Output 12~24V DC
- OVP, OCP, OTP, SCP



Ideal Power's 15DYS618-xyW-K-RS-2.5 18W AC/DC External Adapter Interchangeable Power Supply (PSU) Series are certified to UKCA, CE, CCC, TUV-GS, RCM (C-Tick), FCC, RoHS, REACH & IEC 60950-1/EN 60950-1/UL 60950-1 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 (%)
15DYS618-120150W-K-RS-2.5	12	1.5	18	85
15DYS618-240075W-K-RS-2.5	24	0.75	18	85

### Input Data

	Min	Typical	Max	Units	Notes
Input Voltage	90	--	264	V AC	100-240VAC +/- 10%
Input Frequency	47	--	63	Hz	60Hz/50Hz Nominal
Input Current	--	--	0.5	A	at 100-240V ac input & Full load
Inrush Current	--	--	60	A	at 100-240Vac input and Max load for a cold start at 25°C
Energy Consumption	--	--	0.1	W	While input 115Vac or 230Vac and the output is no load

**Output Data**

	Min	Typical	Max	Units	Notes
Output Current Range	0.0	--	1.5	A	
Output Voltage Range	11.4	--	12.6	V	
Ripple & Noise	--	150	--	mVp-p	
Line Regulation	--	3	--	A	@ 100 Vac to 240 Vac input & Full load
Load Regulation	--	+5	--	%	
Turn-on Delay Time	--	--	3	S	
Hold-up Time	5	--	--	S	
Capacitance Load			470	uF	
Over/Undershoot	--	--	10	%	When power on or off
Transient Response	the output shall not exceed 10% of the nominal output voltage, load fluctuation: from 20% to 80%, R/S: 0.5A/uS, frequency: 100Hz duration and 8mS at 80%.				

**Protection Requirements**

	Min	Typical	Max	Units	Notes
Over Current Protection	--	--	1.95	A	Will recover if fault condition is removed
Short Circuit Protection					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	--	+45	°C	
Storage Temperature	-20	--	+80	°C	
Operating Humidity	10	--	90	%	non condensing
Relative Humidity	5	--	95	%	non condensing
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

**Reliability Requirements**

	Min	Typical	Max	Units	Notes
Burn-in	4	--	--	Hrs	Under normal input and 80% rated load at 40°C ± 5°C
MTBF	50.000	--	--	Hrs	@25°C Full load and nominal input
Dielectric Strength	--	--	5	mA	4242Vdc / 60s (3s for mass production)
Leakage Current	--	--	0.25	mA	@ 264Vac / 50H
Insulation Resistance	50	--	--	mΩ	@primary to secondary add 500Vdc test voltage

**EMI/EMS Standards**

	Test Level	Test Criteria
EMI	EN 55032, FCC Part 15	Class B
EMS	EN 55035	
ESD	IEC 61000-4-2, Air discharge +/-8KV, Contact discharge +/-4KV	Pass B
EFT	IEC 61000-4-4, AC-Input 0.5KV/1KV	Pass A/B
Surge Voltage	IEC 61000-4-5 Differential mode +/-1KV. Common mode +/-2KV	Pass A

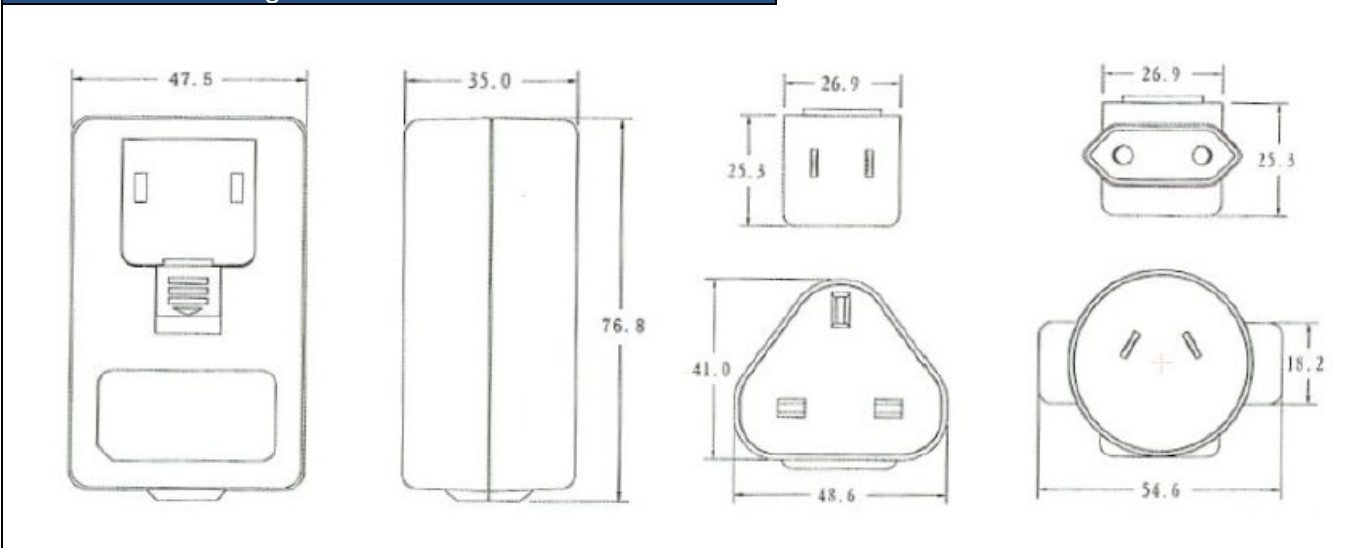
**Safety Approvals**

	Safety Standards
Safety Standards	IEC/EN/UL 60950-1
Approvals	UKCA, CE, CCC, TUV-GS, RCM (C-Tick), FCC, RoHS & REACH

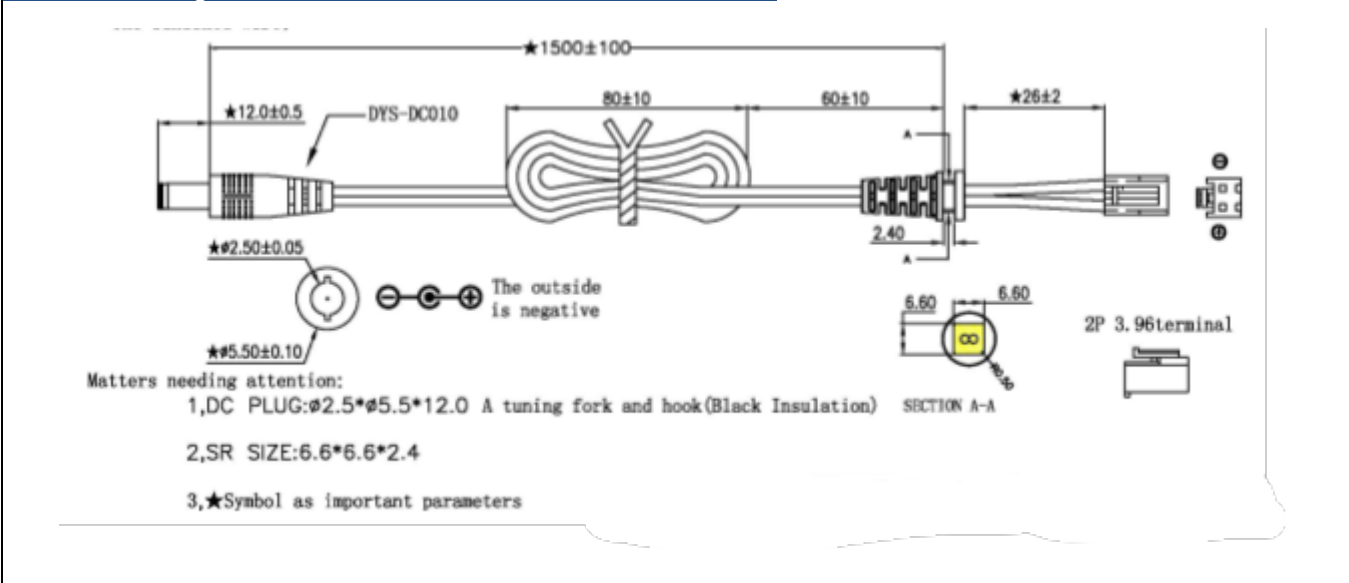
**Product Information**

	Notes
Dimensions	78.6x47.5x35mm
Output Cord	UL2468 22AWG,1.5M Black
Output Connector	DC Plug: 2.5 x 5.5 x 12.0mm

**Mechanical Drawing**



**Cable Drawing**



Typical Label Drawing

