AC – DC

Features

- Universal Input 90~264V AC
- Interchangeable Plugtop Adapters
- Approved to UKCA, CE, CCC, TUV-GS, RCM (C-Tick), FCC, RoHS
- Safety standards to IEC/EN/UL 60950-1
- Single Output 7.5~30V DC
- OVP, OCP, OTP, SCP

Image for Illustration Purpose
Models may vary

Ideal Power's 15DYS624-xyW-K 30W AC/DC External Adapter Interchangeable Power Supply (PSU) Series are certified to UKCA, CE, CCC, TUV-GS, RCM (C-Tick), FCC, RoHS & IEC 60950-1/EN 60950-1/UL 60950-1Standards 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 (%)
15DYS624-075320W-K	7.5	3.2	24	86.2
15DYS624-090250W-K	9	2.5	22.5	85.95
15DYS624-300100W-K	30	1	30	86.94

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	--	--	0.8	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℃
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	--	3.2	A	
Output Voltage Range	7.125	--	31.5	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	While input 100~240Vac, the adapter can turn on normally and the output is in the rated range.
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	1.3	--	4.16	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	--	+40	ºC	
Storage Temperature	-20	--	+80	ºC	
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℃ ± 5℃
MTBF	50.000	--	--	Hrs	@25ºC 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

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EMI/EMS Standards

	Test Level		Test Criteria
EMI	EN 55032, FCC Part 15		Class B
EMS	EN 55024		
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

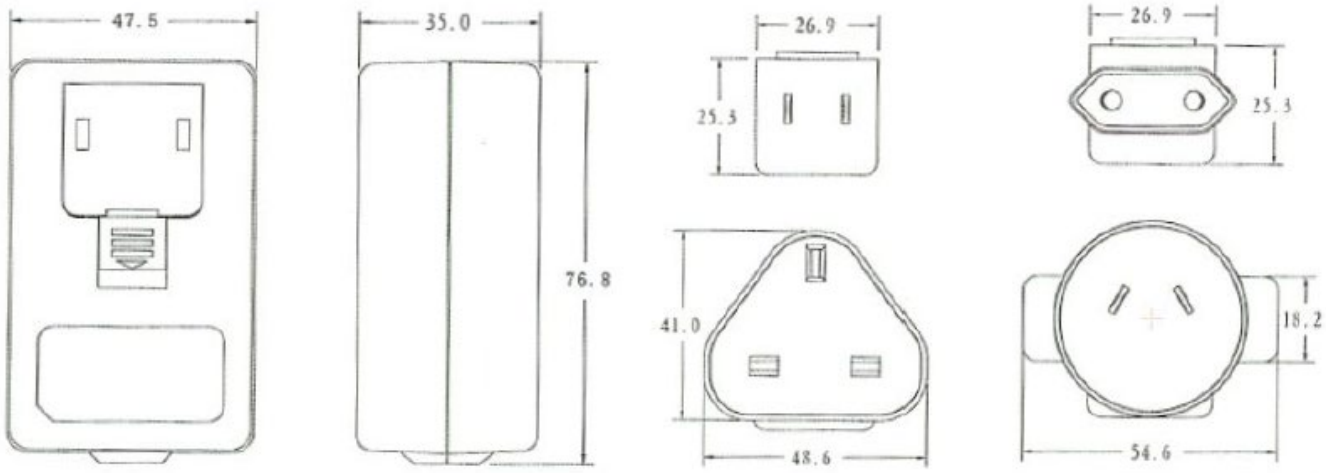
Safety Approvals

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

Product Information

	Notes
Dimensions	78.6x47.5x35mm
Output Cord	UL2468 22AWG, Black
Output Connector	DC Plug: 2.1 x 5.5 x 12.0mm

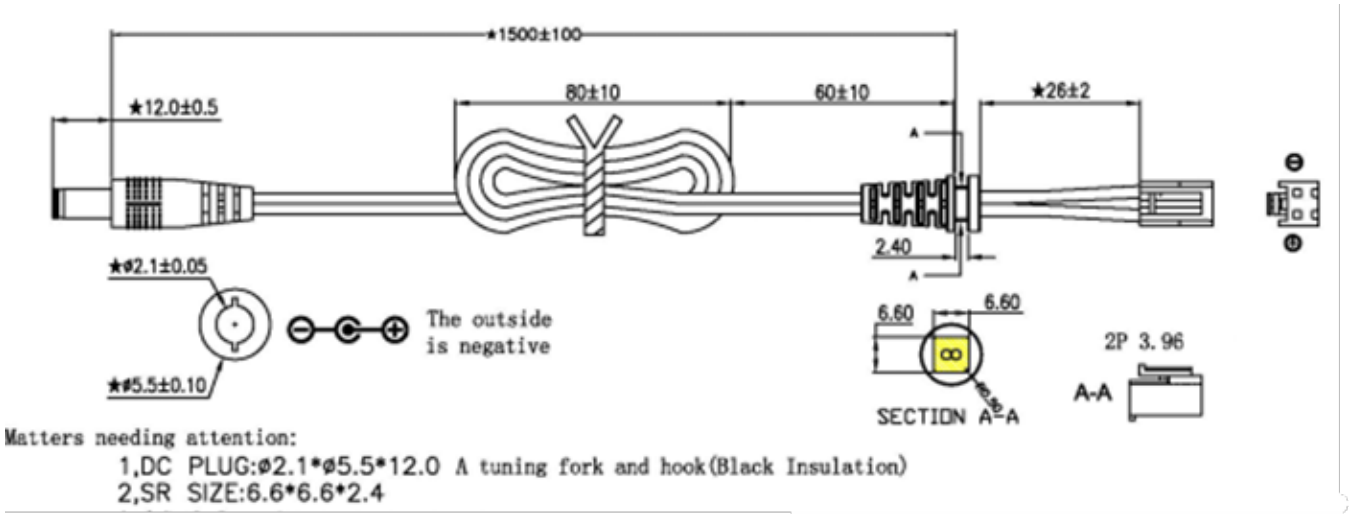
Mechanical Drawing

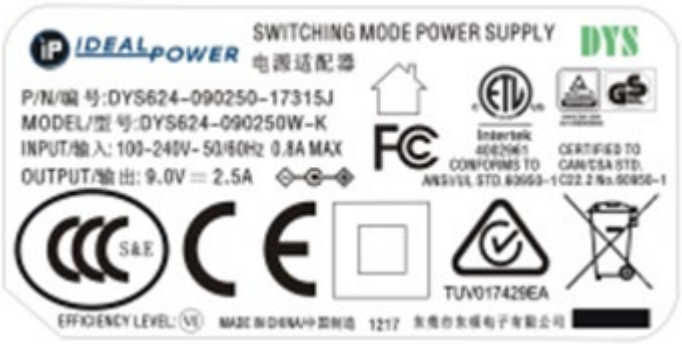


AC – DC

Cable Drawing

Drawing shows 9V model



Model	Cord
15DYS624-075320W-K	18AWG, 1.2m
15DYS624-090250W-K	18AWG, 1.5m
15DYS624-300100W-K	24AWG, 1.5m

Typical Label Drawing