AC – DC

Features

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

Image for Illustration Purposes
Models may vary

Ideal Power's 15DYS6150-xyP 150W AC/DC External Desktop Power Supply (PSU) Series are certified to CE, cULus, TUV, RCM (C-Tick), 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 (%)	Ripple & Noise (mVp-p)
15DYS6150-1201000P	12	10	120	88	200
15DYS6150-1800770P	18	7.7	138.6	88	300
15DYS6150-2400625P	24	6.25	150	88	300
15DYS6150-3000500P	30	5	150	88	300
15DYS6150-3600416P	36	4.16	149.7	88	300
15DYS6150-4800312P	48	3.12	149.7	88	480

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	--	--	2.5	A	
Inrush Current	0	--	80	A	@ 100-240Vac input and Max load for a cold start at 25℃
Leakage Current	--	--	0.25	mA	
Energy Consumption	While input 115Vac or 230Vac and the output is no load, the input power loss must be less than 0.21W				

Output Data

	Min	Typical	Max	Units	Notes
Output Voltage	--	5	--	%	
Line Regulation	--	±3	--	%	
Load Regulation	--	±5	--	%	
Turn-on Delay Time	--	--	3	S	100 Vac to 240 Vac input & Full load
Hold-up Time	5	--	--	S	Full load &100Vac/60Hz input turn off worst case
Capacitance Load	When input is 100~240 Vac and the capacitance load is 470 uF, the adapter turns on normally, and the output is within the rated range.				

Output Overshoot / Undershoot	--	--	10	%	When the power is on or off
Output Load 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

	Min	Typical	Max	Units	Notes
Over Current Protection	--	>12	--	--	Typically, 115-135% of Rated Current
Short Circuit Protection					Continuous short circuit proof. Will recover if the fault condition is removed
Over Voltage Protection					Will recover if the fault condition is removed

Environmental Data

	Min	Typical	Max	Units	Notes
Operating Temperature	0	--	+45	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	--	30	Hz	sweep at a constant acceleration of 1.0G (Breadth: 3.5mm) for 1Hour for each of the perpendicular axes X, Y, Z
Drop In	Height: 1m; the product should fall off on the plank with a thickness of at least 53mm, and the plank put on the cement ground or on the ground without flexibility. Random surface in all 3 times.				

Reliability Requirements

	Notes
Burn-in	The power supply shall be burn-in at least 4 Hours under normal input and 80% rated load at 40℃ 5℃
MTBF	The MTBF shall be at least 50,000hours at 25°C, Full load and nominal input condition

EMI/EMS Standards

	Standard	Test Level	Criteria	Notes
EMI	EN 55032	Pass		
	FCC	Pass		Part15 class B
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	Differential mode: +/- 2KV, Common mode: +/- 2KV

Safety Approvals

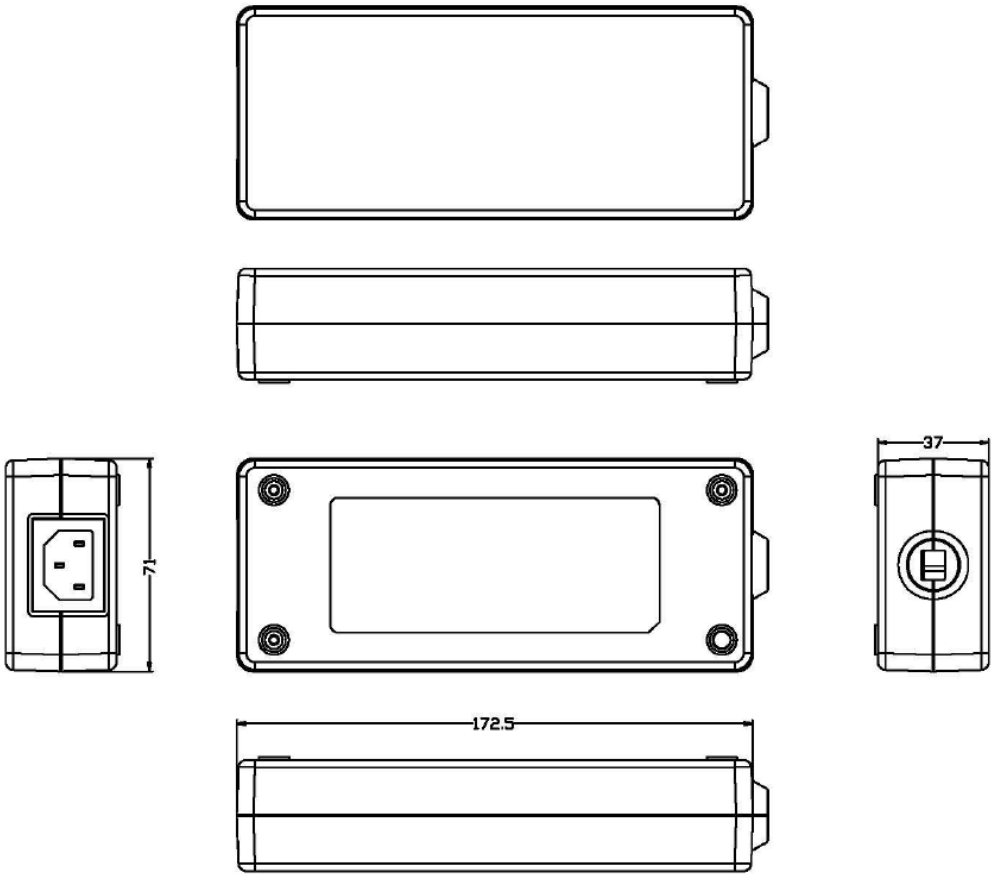
Approved to	UKCA, CE, FCC, RCM (C-Tick), TUV-GS, RoHS, REACH

Product Information

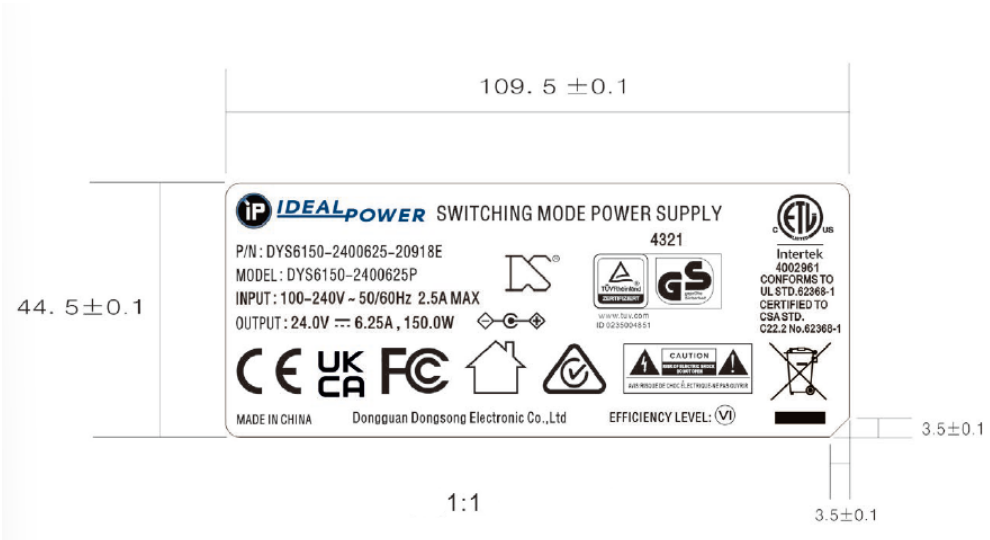
Input Connector	C14
Output Connector	2.1 x 5.5 x 12 mm OR 4 Pin Power DIN plug
Dimensions	172.5 x 71 x 37 mm
Weight	450 g -10/+10 Depending on model

AC – DC

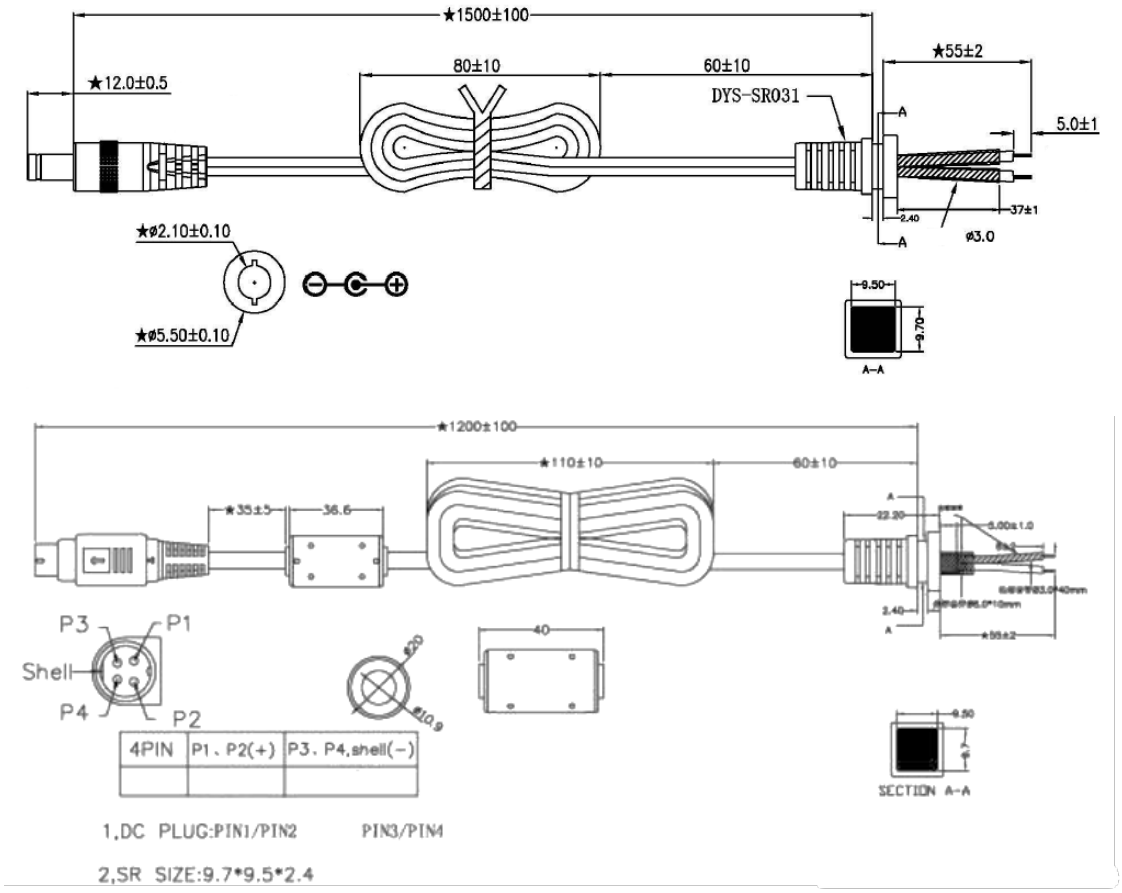
Mechanical Drawing



Label Drawing



Cable Drawings

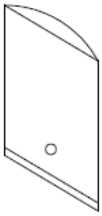


Cable Length

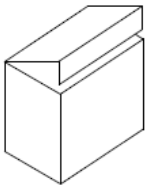
Model Number	Output Cable
15DYS6150-1201000P	1.2m 14AWG UL 1185
15DYS6150-1800770P	1.2m 14AWG UL 1185
15DYS6150-2400625P	1.5m 18AWG UL 2468
15DYS6150-3000500P	1.5m 18AWG UL 2468
15DYS6150-3600416P	1.5m 18AWG UL 2468
15DYS6150-4800312P	1.5m 18AWG UL 2468

Packaging

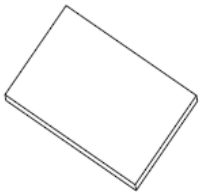
PLASTIC BAG



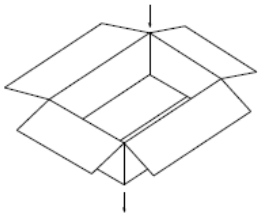
WHITE BOX



CARDBOARD



PAPER CASE



MECHANICAL DIMENSION:

	L(mm)	W(mm)	H(mm)
PLASTIC BAG	330	150	
WHITE BOX	230	130	55
CARDBOARD	470	285	
PAPER CASE	480	295	300

PACKING METHOD:

PACKING METHOD	5PCS/LAYER *4LAYERS
QTY	20PCS
N.W	12.0Kg
G.W	14.0Kg