

Features

- Universal Input 90~264V AC
- Direct UK Fixed Plugtop Adapter
- Approved to UKCA, CE, RoHS & REACH
- EN/IEC 62368-1 Safety Approved
- Meets Efficiency Level VI & (EU) 2019/1782
- EMC Class B Certified
- Single Output 12~24V DC
- OVP, OCP, SCP

15DYS830-xyW-3-RS

30W External AC/DC UK Plugtop Adapter Power Supply



The 15DYS830-xyW-3-RS Series is a durable and consistent 30W External AC/DC UK Plugtop Adapter Power Supply. Designed for use in applications such as computing platforms and communications equipment. Certified to UKCA, CE, RoHS, REACH and compliant with EN 62368-1/IEC 62368-1.

Model Number Information

15DYS830-xyW-3-RS

Series Name

Models

Model Number	DC Voltage (V)	Voltage Tol. Range (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Ripple & Noise(max.) (mVp-p)
15DYS830-120250W-3-RS	12	11.4~12.6	2.5	30	86.94	150
15DYS830-150200W-3-RS	15	14.25~15.75	2	30	86.94	150
15DYS830-240125W-3-RS	24	22.8~25.2	1.25	30	86.94	240

Input Specifications	
Rated Voltage Range	100~240VAC
Voltage Range	90~264VAC
Frequency Range	47~63Hz (50~60Hz Nominal)
Rated input current	0.8Amax @ 100-240Vac input & Full load
Inrush Current	The inrush current will not exceed 60A at 100-240Vac input and Max load for a cold start at 25°C
Energy Consumption	While input 115Vac or 230Vac and the output is no load, the input power loss must be less than 0.1W

Output Specifications	
Line Regulation	±3%
Load Regulation	±5%
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 in the worst case
Capacitance Load	While input 100~240Vac and capacitance load is 470uF, the adapter can turn on normally
Output Overshoot	10% Max. When the power supply is turned on/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	
Over Current Protection	12V I>3.25A / 15V I>2.6A / 24V I>1.625A At rated AC input, the output current in the range of /A will protect
Short Circuit	The power supply will automatically recover when short circuit faults are removed.
Over Voltage Protection	The power supply will auto protect when the output over voltage

Environmental Characteristics			
Operating Temperature	0°C to +45°C	Relative Humidity	10%RH to 90%RH
Storage Temperature	-20°C to +80°C	Relative Humidity	5%RH to 95%RH
Vibration	10 to 300Hz 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 should be put on the cement ground or on the ground without flexibility. Random surface all 3 times.		

Reliability Requirements	
Burn-in	For at least 4 Hours under normal input and 80% rated load at 40°C ±5°C
MTBF Qualification	At least 50,000hours at 25°C, Full load and nominal

Safety Standards	
Safety Standards	IEC62368-1 /EN62368-1
Certifications	UKCA, CE, RoHS & REACH
Dielectric Strength(Hi-pot)	Primary to Secondary: 4242VDC / 5mAmax / 60second(3 seconds for mass production)
Leakage Current	0.25mAmax. at 264Vac / 50Hz
Insulation Resistance	50MΩ min. at primary to secondary add 500Vdc test voltage

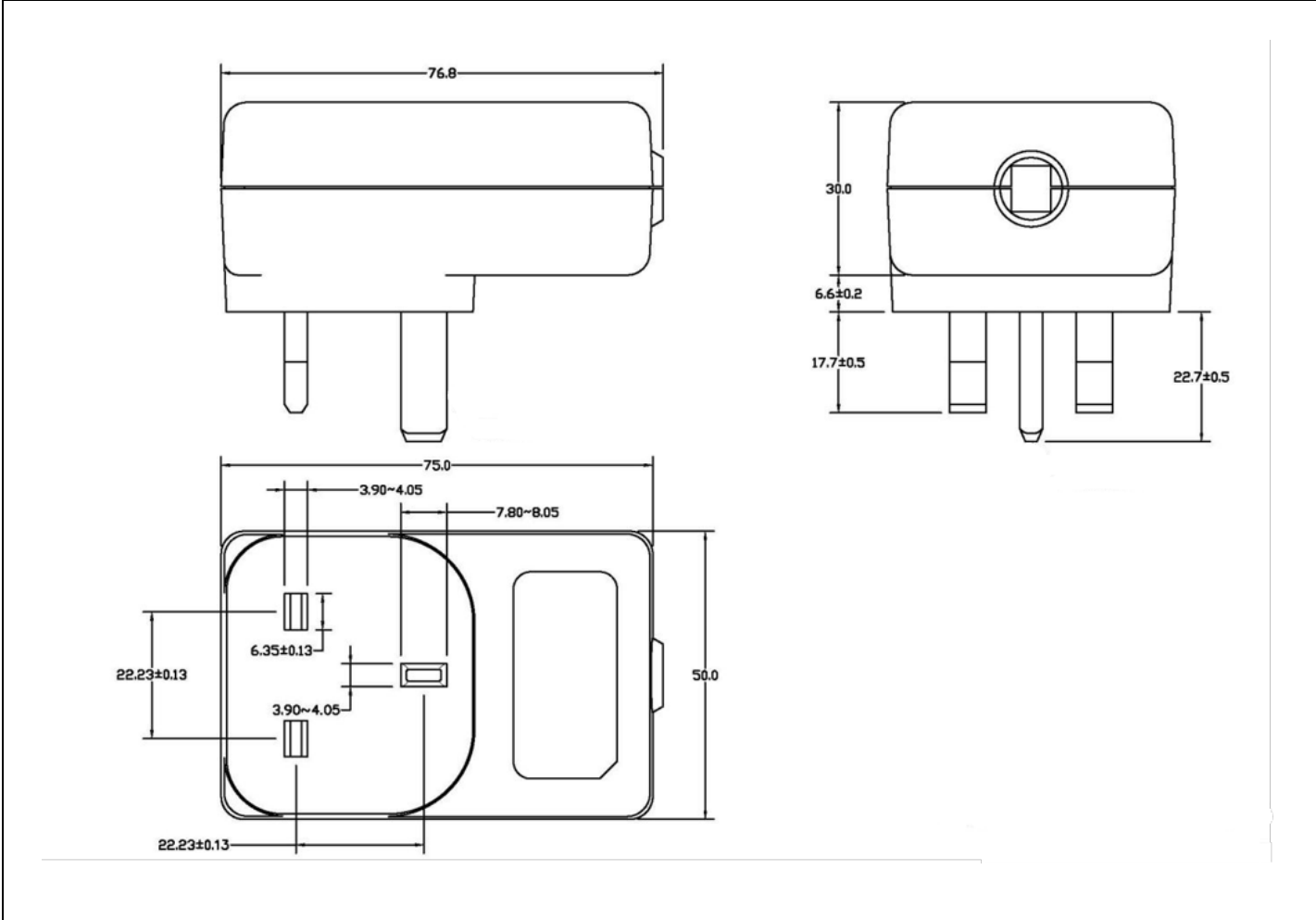
Regulatory Compliance

EMI/EMS Standards	EN55032, EN55035
Electrostatic Discharge Immunity (ESD)	EN 61000-4-2 - Air Discharge: $\pm 8\text{kV}$ / Contact Discharge: $\pm 4\text{kV}$ Test Criteria B
Fast Transient Immunity	EN 61000-4-4 – AC Input: 0.5kV Test Criteria A / AC Input: 1kV / Test Criteria B
Surge Immunity	EN 61000-4-5 - Differential mode: $\pm 1\text{kV}$ / Common mode: $\pm 2\text{kV}$ / Test Criteria A

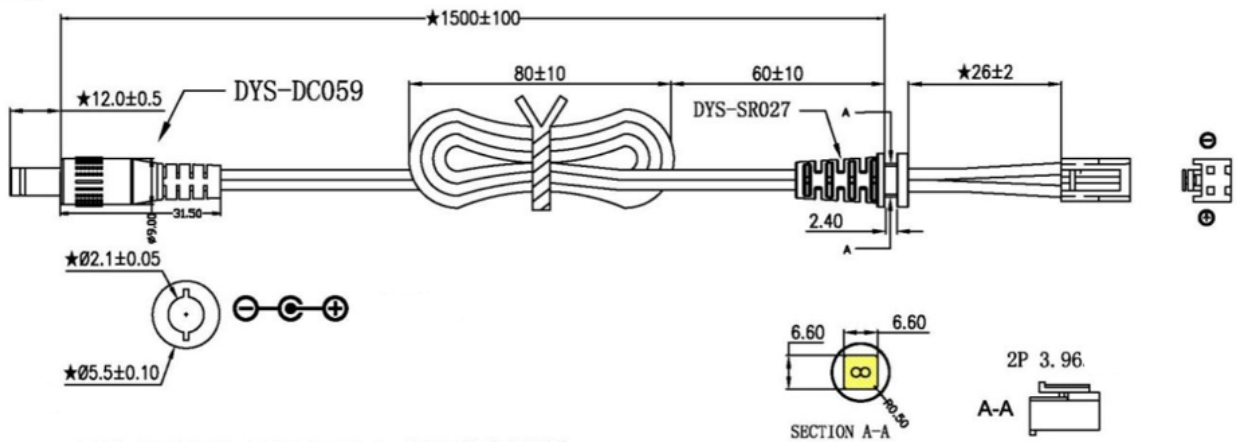
Dimensions & Weight

Measurements	
Dimensions	76.8 x 50 x 59.3mm
Weight	80g +/-10g

Outline Drawing



Example DC Cord Drawing



15DYS830-120250W-3-RS	UL 2468, 20AWG, 1500mm, 2.1x5.5x12mm connector
15DYS830-150200W-3-RS	UL 2468, 20AWG, 1500mm, 2.1x5.5x12mm connector
15DYS830-240125W-3-RS	UL 2468, 22AWG, 1500mm, 2.1x5.5x12mm connector

Example Label



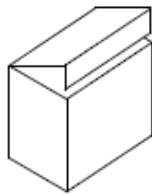
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Packaging

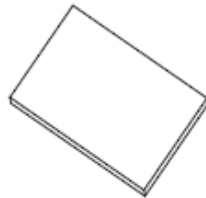
PLASTIC BAG/PE



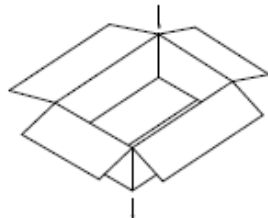
WHITE BOX/



CARDBOARD



PAPER CASE/



MECHANICAL DIMENSION:

	L(mm)	W(mm)	H(mm)
PLASTIC BAG	210	130	
WHITE BOX	94	60	90
CARDBOARD	395	255	
PAPER CASE	405	265	300

PACKING METHOD:

PACKING METHOD	16PCS/LAYER *3LAYERS
QTY	48PCS
N.W	7.0Kg
G.W	8.5Kg



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