

Features

- Universal input 100-240VAC
- Interchangeable Power Supply
- Approved to UKCA, CE, cULus, TUV, FCC, (C-Tick), RoHS, REACH
- EN/IEC/ES 60601-1 Safety Approved
- Meets Efficiency Level VI
- EMC Class B Certified
- Single Output 12-48V DC
- OVP, OCP, OTP & Short Circuit



Ideal Power's 15DYS851-xxxxyyG-K 50W AC/DC External Adapter Interchangeable Power Supply (PSU) Series are certified to UKCA, CE, cULus, TUV, FCC, (C-Tick), RoHS, REACH & EN 60601-1/IEC 60601-1/ES 60601-1 Standards and comply with (EU) 2019/1782, Level VI Efficiency Regulations. These are primarily used in Medical, ITE, Audio & Video Industries and customised solutions are available upon request.

Models

Model Number	Output Voltage V DC	Output Current A	Output Power W
15DYS851-120416G-K	12	4.16	49.5
15DYS851-190265G-K	19	2.65	50.4
15DYS851-240210G-K	24	2.10	50.4
15DYS851-480105G-K	48	1.05	50.4

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	--	--	1.3	A	
Inrush Current	--	--	60	A	At cold start, 100 / 240V AC
Leakage Current	--	--	0.25	mA	

Output Data

	Min	Typical	Max	Units	Notes
Output Voltage	--	5	--	%	
Ripple & Noise	150	--	240	mVp-p	Model dependant
Over Current Protection	Over Current Point Limited >2.16A				
Short Circuit Protection	Continuous short circuit proof. Will recover if fault condition is removed				
Over Voltage Protection	Will recover if fault condition is removed				

Ideal Power Limited

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Environmental Data

	Min	Typical	Max	Units	Notes
Operating Temperature	0		+40	°C	
Storage Temperature	-20		+80	°C	
Operating Humidity	10		90	°C	Operating 10% to 90%
Storage Humidity	5		95	°C	Storage 5% to 95%

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

EMC Emissions (2014/30/EU)

	Standard	Test Level	Criteria	Notes
Conducted	EN 55032	Pass	B	EMC Directive 2014/30/EU
Radiated	EN 55032	Pass	B	
Harmonic Standard	EN 61000-3-2		Class D	P.F. shall >0.95 @100Vac input and >0.9 @240Vac input

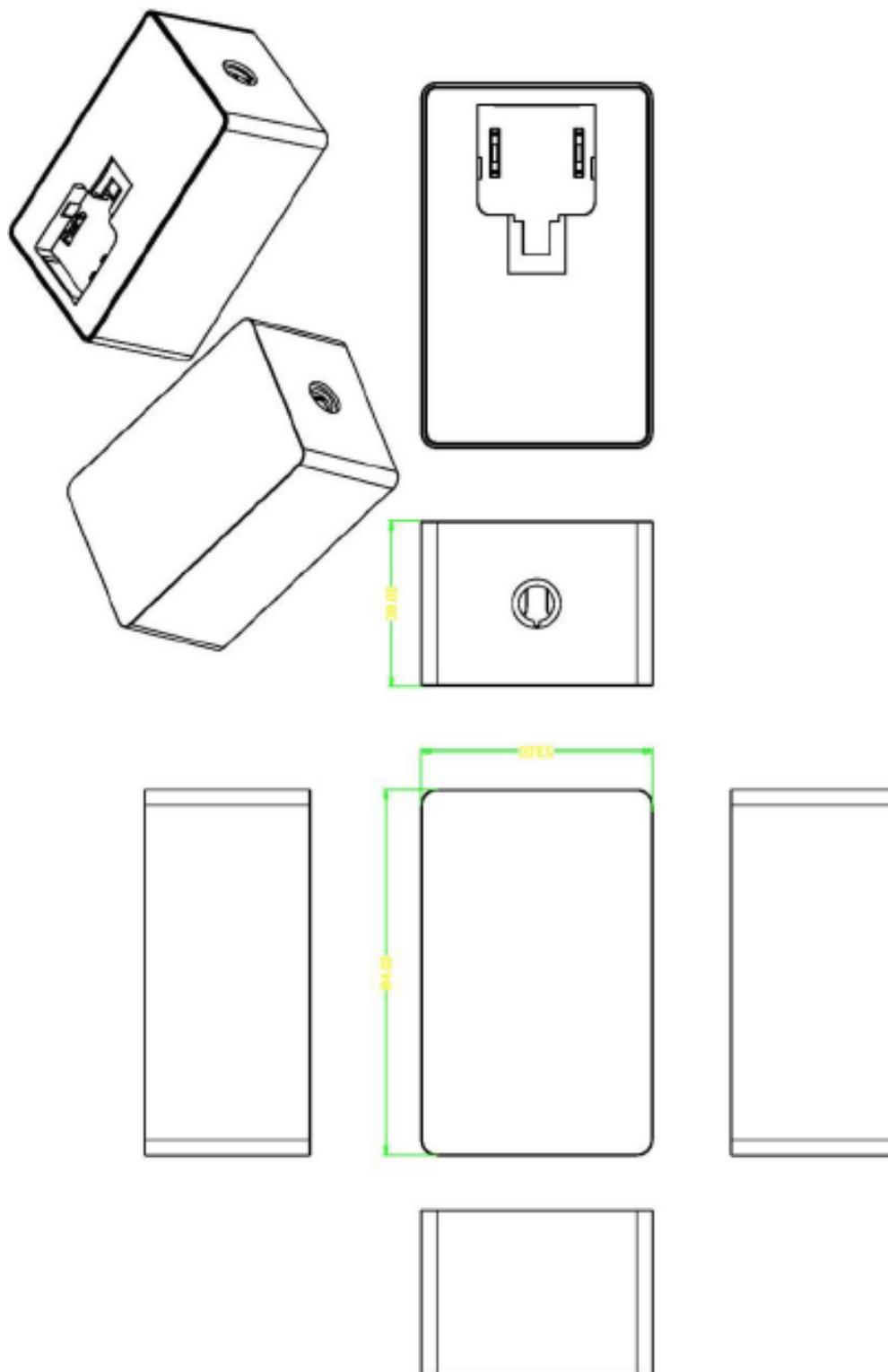
EMI/EMS Immunity (2014/30/EU)

	Standard	Test Level	Criteria	Notes
EMS	IEC/EN 60601-1-2			
EMS	EN 55035			
ESD	IEC 61000-4-2		B	Contact: +/- 4KV; Air: +/- 8KV
RS	IEC 61000-4-3			Frequency: 80-1000MHz; Field Strength: 3V/M ' 80% AM (1KHz)
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

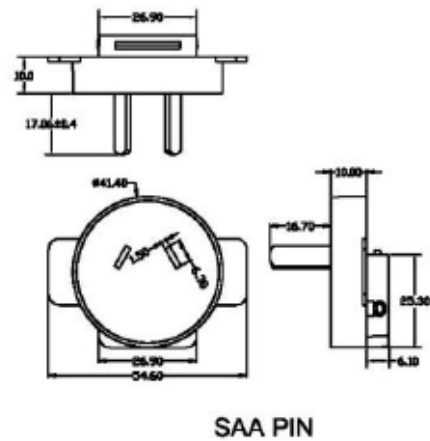
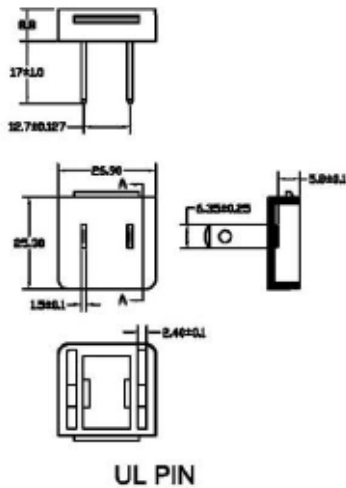
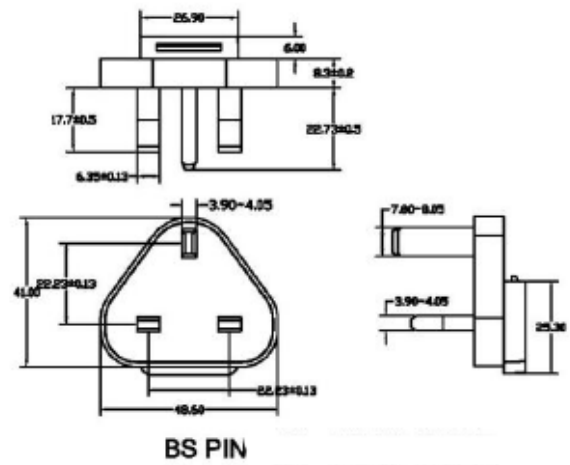
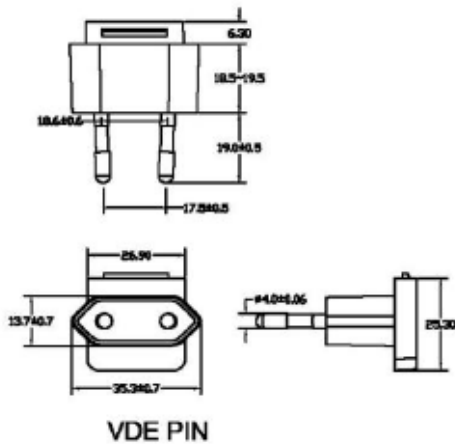
	Safety Standards
RoHS/REACH	RoHS Directive (EU) 2015/863 & REACH (205 SVHC)
CE LVD Directive 2014/35/EU	Yes (UK/European)
cULus	Yes
TUV	Yes
RCM & C-Tick	Yes

Mechanical Drawing



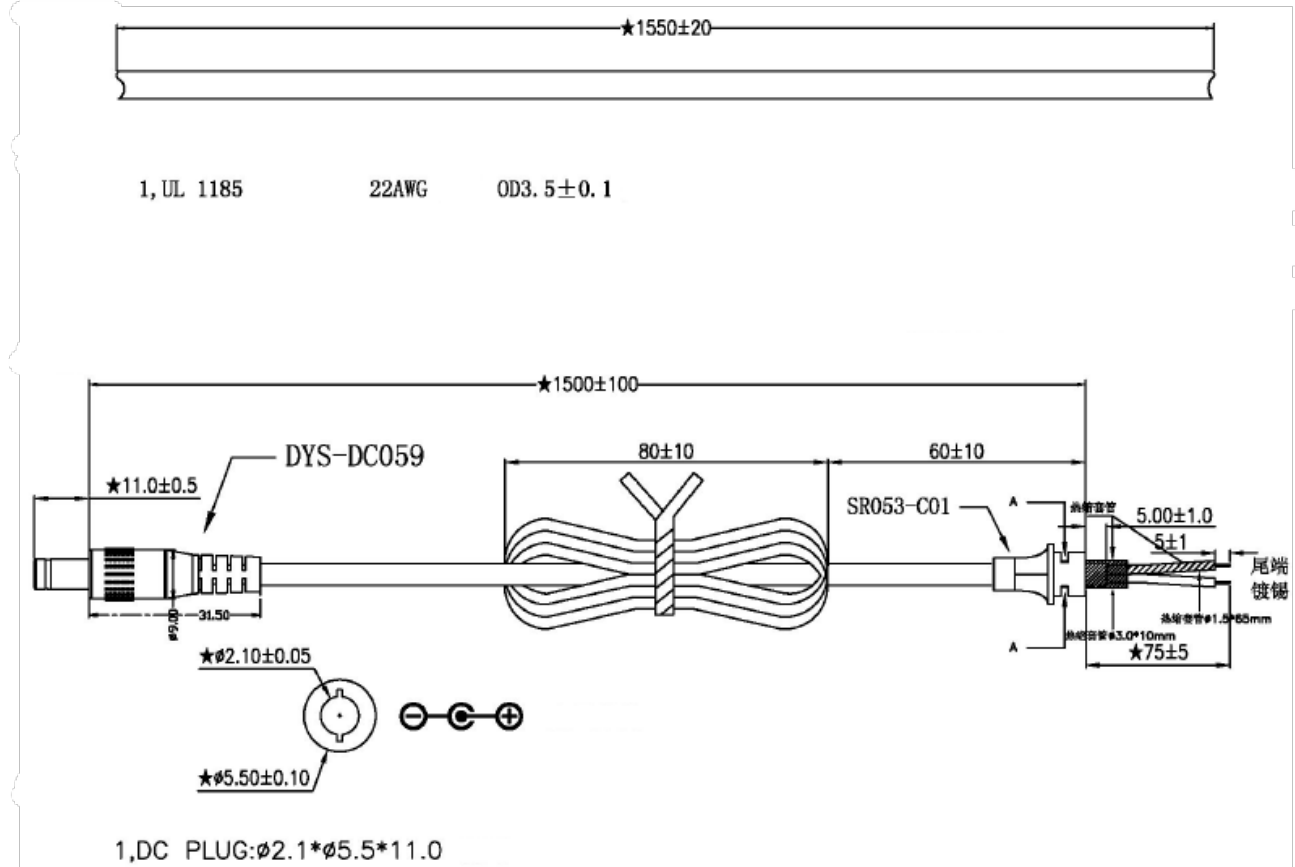
AC – DC

Mechanical Drawing



AC – DC

Mechanical Drawing



Model Number	Output Cable
15DYS851-120416G-K	1.55m UL1185 18AWG
15DYS851-190265G-K	1.55m UL1185 22AWG
15DYS851-240210G-K	1.55m UL1185 22AWG
15DYS851-480105G-K	1.55m UL1185 22AWG