



- Universal Input 100~240VAC 50/60Hz
- UL/IEC/EN 62368-1 Approved
- Compliant to LVD & EMC safety standards
- RoHS & CE Directive Compliant
- Level VI efficiency
- OVP, OCP, OTP & Short Circuit Protection

The purpose of the document is to specify a Single-phase AC input, single output switching power supply. This specification is suitable for: 25HK-AY-xxxAzzz-CP 24W Series. This product is AC to DC switching power supply, it can provide 5-24V 24W max DC output constant voltage source. This Specification defines the input, output, performance characteristics, environment, noise and safety

### Models

Model Number	Output Voltage	Output Current	Output Power
25HK-AY-050A300-CP	5V DC	3A	15W
25HK-AY-090A266-CP	9V DC	2.66A	24W
25HK-AY-120A200-CP	12V DC	2A	24W
25HK-AY-150A160-CP	15V DC	1.60A	24W
25HK-AY-240A100-CP	24V DC	1A	24W

### 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		0.8		A	
Inrush Current	0		60	A	At cold start, 100 / 240V AC
Leakage Current			0.25	mA	

### Output Data

	Min	Typical	Max	Units	Notes
Output Voltage tolerance		5%		%	
Ripple & Noise			200	mV	
Over Current Protection					Overload conditions shall decrease the output voltage.
Short Circuit Protection					Auto Recovery
Over Voltage Protection					Will recover if fault condition is removed

### Environmental Data

	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	0		40	°C	
Storage Temperature	-20		+70	°C	
Operating Humidity	10		95	%	Operating 10% to 90%
Storage Humidity	10		95	%	Storage 5% to 95%

### Other Information

	Minimum	Typical	Maximum	Units	Notes
Dielectric Strength					AC 3000Vrms, 4mA, 1 Minute for type test.
MTBF		50,000		hrs	
Weight	200 +/-10g				
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 A	
Voltage fluctuations	EN 61000-3-3	Pass		Voltage fluctuations & Flicker

### EMC Immunity (2014/30/EU)

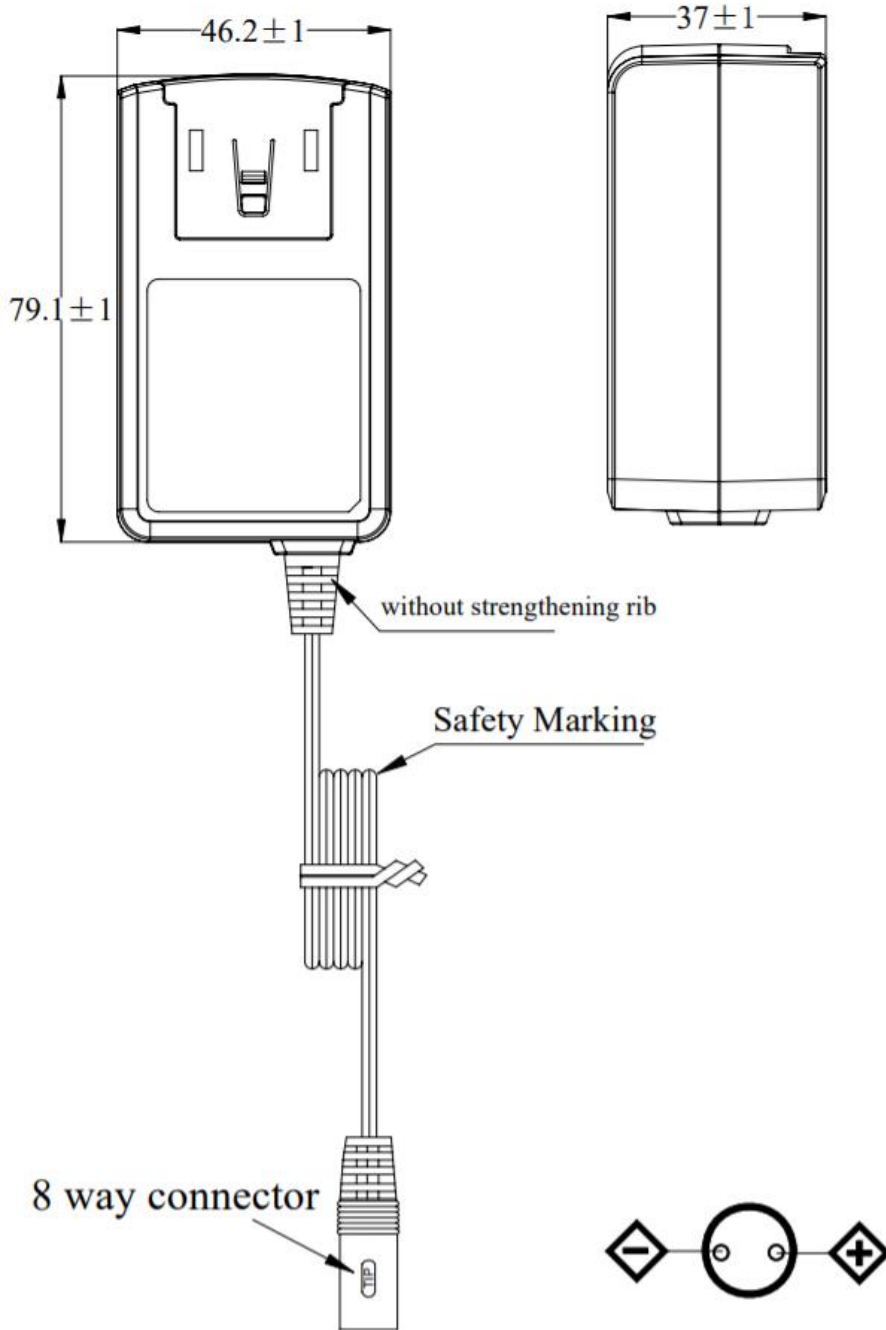
	Standard	Test Level	Criteria	Notes
ESD	IEC 61000-4-2	Pass		Contact: +/- 4KV; Air: +/- 8KV
RS	IEC 61000-4-3			Frequency: 80-1000MHz; Field Strength: 3V/M ' 80% AM (1KHz)
EFT	IEC 61000-4-4			0.5/1.0KV on input AC power ports
Surge	IEC 61000-4-5			Line to Line: +/- 1KV (peak); Line to F.G: +/- 2KV (peak)
Conducted	IEC 61000-4-6			CS: 0.15~ 80MHz, 3Vrm, 80% AM, 1kHz
PFMF	IEC 61000-4-8			50 Hz or 60Hz, 1A/m
Dips and Interruptions	IEC 61000-4-11			V/D: >95% reduction for 0.5 period VI:>95% reduction for 250 period.

### Safety Approvals

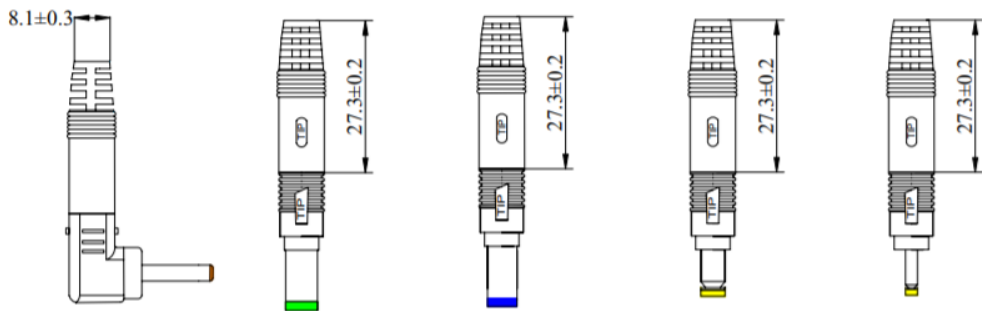
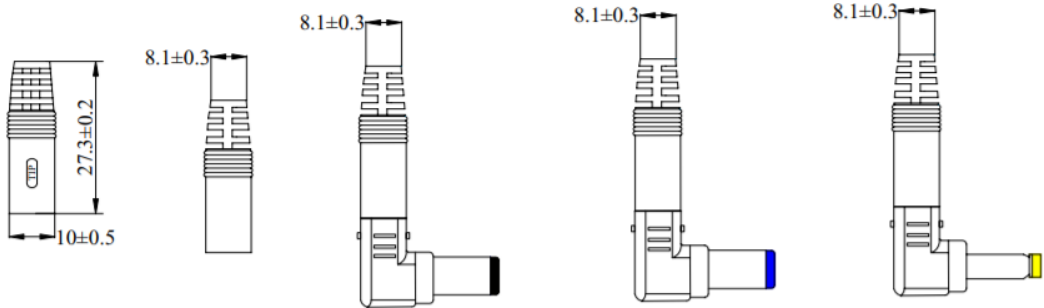
#### Safety Standards

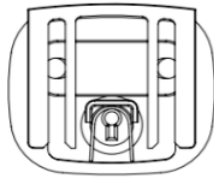
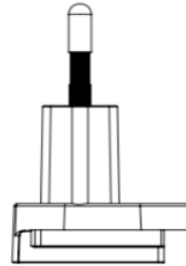
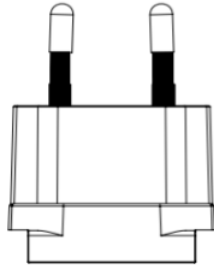
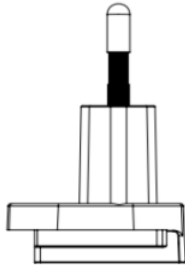
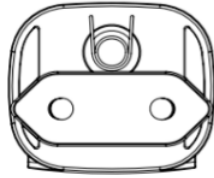
RoHS/REACH	RoHS Directive (EU) 2015/863 & REACH (205 SVHC)
CE LVD Directive 2014/35/EU	Yes (UK/European)
cULus	Yes – (US)
TUV	Yes (German/European)
RCM & C-Tick	Yes – (Australian)

Mechanical Drawing

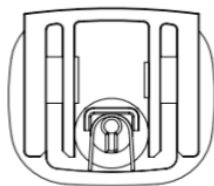
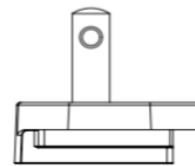
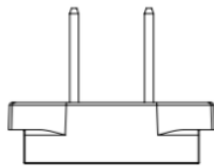
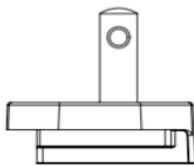
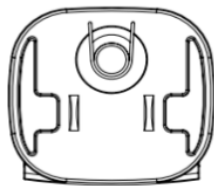


UNIT: mm

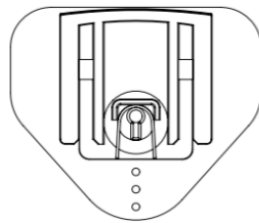
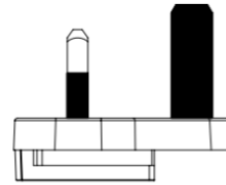
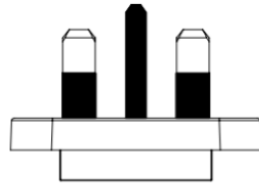
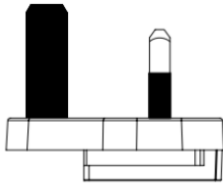
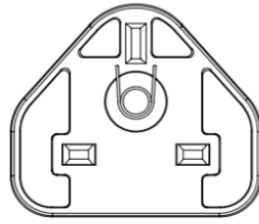




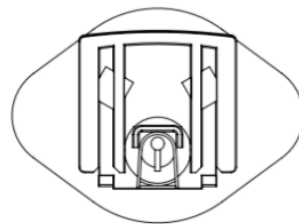
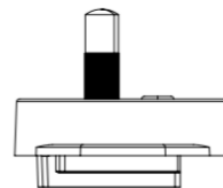
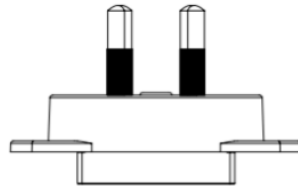
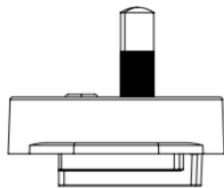
TUV



UL



UK



SAA