

Features

- Universal input 100-240VAC
- Approved to UKCA, CE, cULus, RCM (C-Tick) RoHS & REACH
- EN/IEC 62368-1 Safety Approved
- Meets Efficiency Level VI
- FCC Class B Certified
- Single Output 5-24V DC
- OVP, OCP, OTP & Short Circuit



Ideal Power's 25HK-AB-xAz-CP6 30W AC/DC External Interchangeable Power Supply (PSU) Series are certified to UKCA, CE, cULus, TUV, RCM (C-Tick), RoHS, REACH & UL/IEC/EN 62368-1 Standards and comply with Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

Models

Model Number	Output Voltage	Output Current	Output Power
25HK-AB-050A400-CP6	5V DC	4A	20W
25HK-AB-050A400-CP6	5V DC	4A	20W
25HK-AB-059A300-CP6	5V DC	3A	17.7W
25HK-AB-060A300-CP6	6V DC	3A	18W
25HK-AB-075A250-CP6	7.5V DC	2.5A	18.8W
25HK-AB-090A250-CP6	9V DC	2.5A	22.5W
25HK-AB-120A250-CP6	12V DC	2.5A	30W
25HK-AB-140A214-CP6	14V DC	2.14A	30W
25HK-AB-140A240-CP6	14V DC	2.40A	33.6W
25HK-AB-150A200-CP6	15V DC	2A	30W
25HK-AB-180A166-CP6	18V DC	1.66A	29.9W
25HK-AB-240A125-CP6	24V DC	1.25A	30W

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		50	A	At cold start, 100 / 240V AC
Leakage Current			0.25	mA	

Output Data

	Min	Typical	Max	Units	Notes
Output Voltage	--	5	--	%	
Ripple & Noise	--	--	120	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

	Min	Typical	Max	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

	Min	Typical	Max	Units	Notes
Isolation	--	--	--	--	AC 3KV, 2 second, 4mA, Max primary to secondary/case.
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 D	
Voltage fluctuation	EN 6100-3-3	Pass		Voltage fluctuations & Flicker

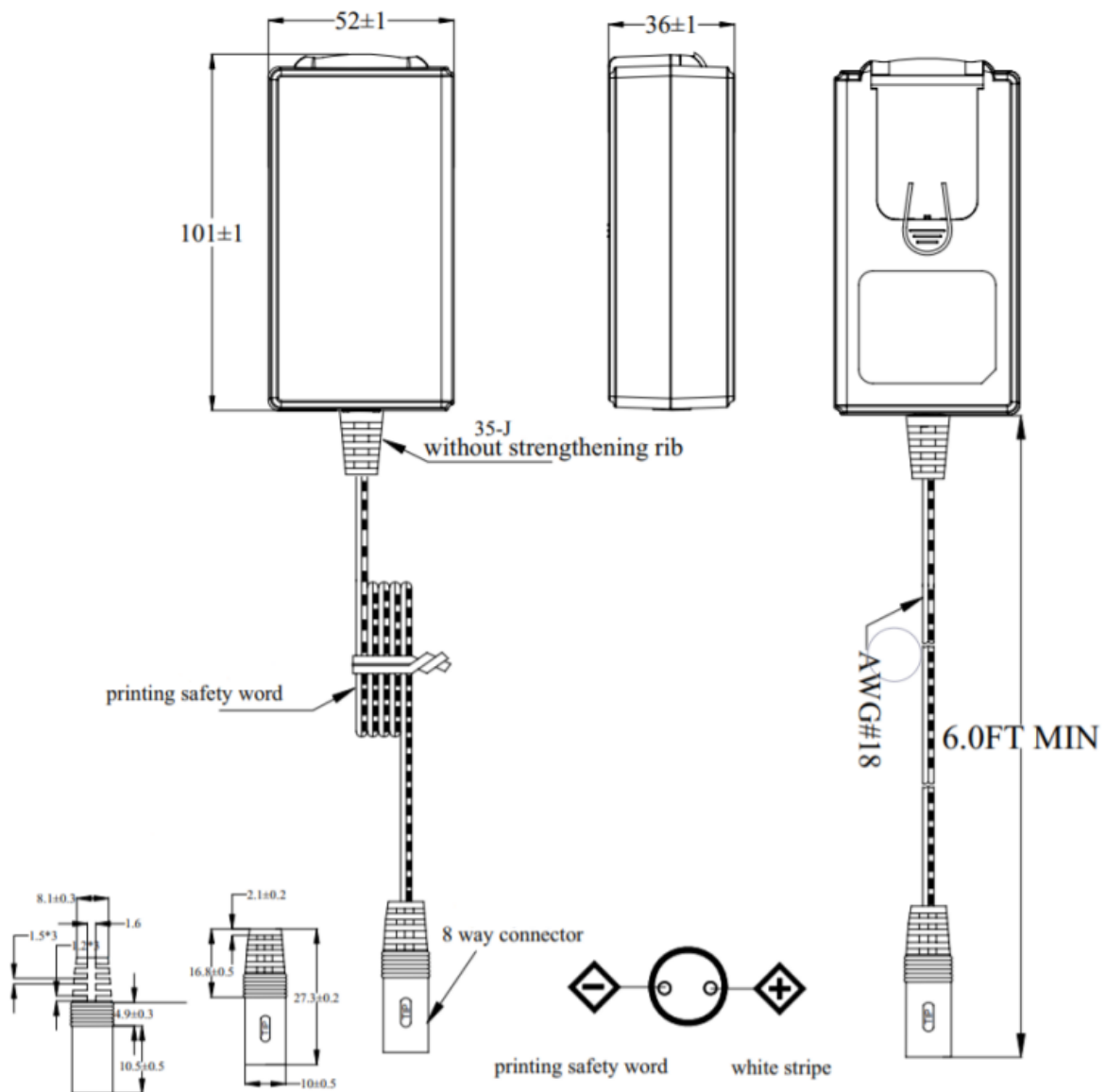
EMC Immunity (2014/30/EU)

	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 peroid.

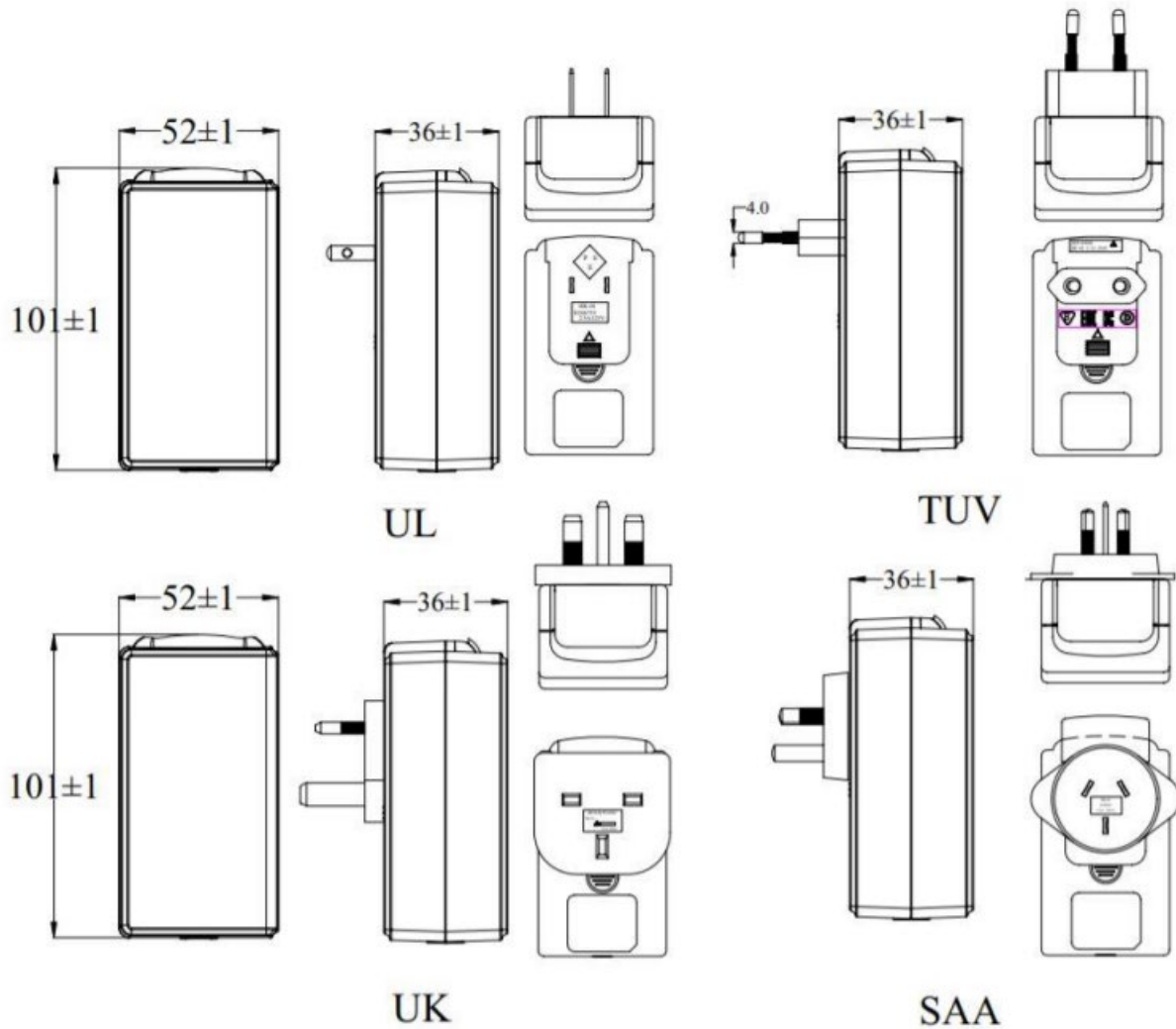
Safety Approvals

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)

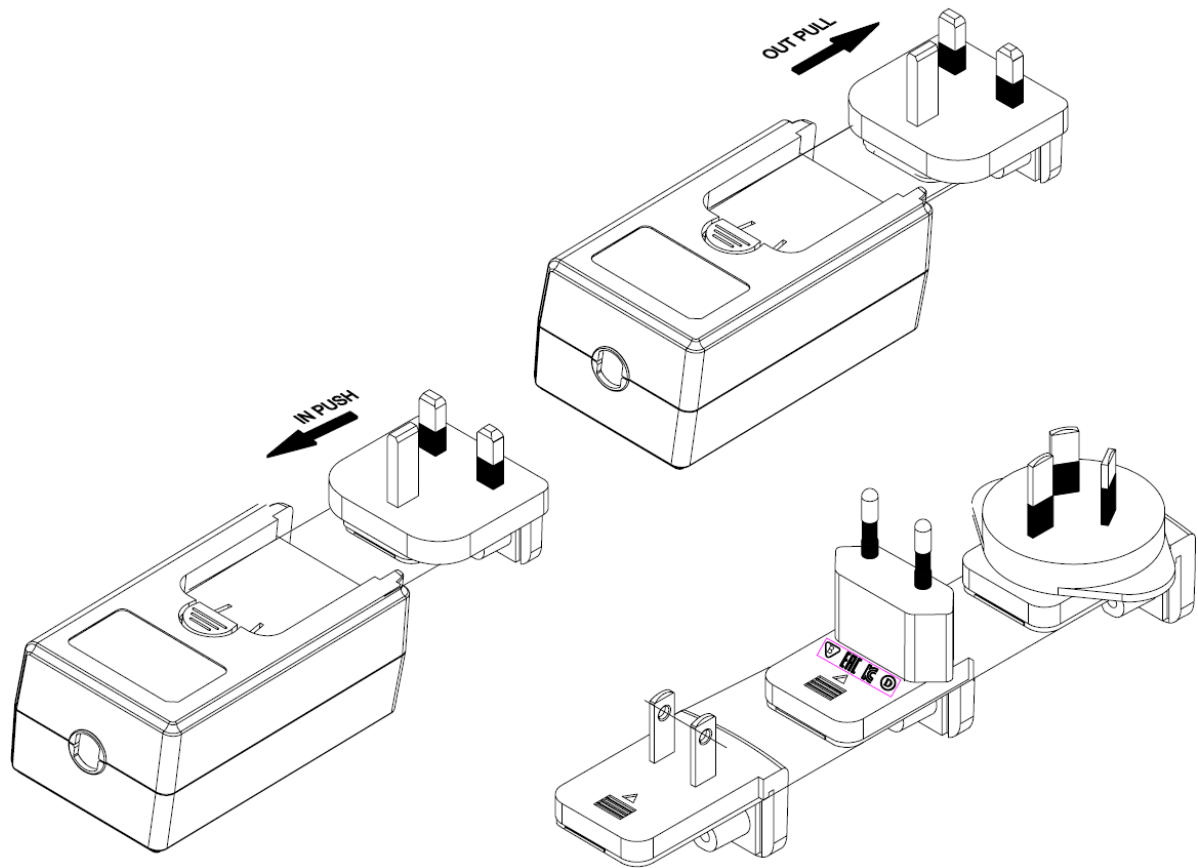
Mechanical Drawing



Mechanical Drawing (Continued)



Mechanical Drawing (Continued)



AC – DC