

Features

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



Ideal Power's 25HK-AB-xAz-CP6-1 30W AC/DC External Adapter Interchangeable Power Supply (PSU) Series are certified to UKCA, cULus, CCC, FCC, TUV, C-Tick, CE, RoHS & EN 62368-1/IEC 62368-1/UL 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-240A125-CP6-1	24V DC	1.25A	30W

Input Data

	Min	Typical	Max	Units	Notes
Input Voltage	100	--	240	V AC	100-240VAC +/- 10%
Input Frequency	47	--	63	Hz	
Input Current	--	0.8	--	A	Max
Inrush Current	0	--	60	A	
Leakage Current	--	--	0.25	mA	

Output Data

	Min	Typical	Max	Units	Notes
Output Voltage	--	24	--	%	
Output Regulation	22.8	--	25.2	V	
Load Range	0	--	1.25	A	
Ripple & Noise	--	--	240	mV	Max @20MHz bandwidth with 10UF/50V capacitance and 104/50V ceramic capacitor
Input Protection	The switching PSU has a 2 Amps inner current fuse to protect itself.				
Over Current	Overload conditions shall decrease the output voltage.				
Over Current Protection	2.6A MAX				
Short Circuit Protection	Auto Recovery				
Over Voltage Protection	Will recover if fault condition is removed				

Ideal Power Limited

14 Larks Way, Tree Beech Enterprise Park, Gunn, Barnstaple, Devon, England, EX32 7NZ.

www.idealpower.co.uk | +44 (0) 845 260 3400

Page 1 of 9

Environmental Data

	Min	Typical	Max	Units	Notes
Operating Temperature	0	--	40	°C	
Storage Temperature	-20	--	+70	°C	
Humidity	10		95	%	

Other Information

MTBF	100,000hrs @25 °C
Hold-up Time	10ms min @ 110V SC full load
Turn-on Time	2S max @ 110V AC full load
Insulation Resistance	Primary to secondary: 50M OHM to 500V DC
Dielectric Strength	Primary to secondary: AC 3000 Vrms, 4mA, 1minute for type test, 2 seconds for production test.
Weight	200 +/-10g
Dimensions	Refer to mechanical drawings

EMC Emissions (2014/30/EU)

	Standard	Test Level	Criteria	Notes
Conducted	EN 55032	Pass	B	2015+A11+A1
Radiated	EN 55035			2017+A11
Harmonic Standard	EN 61000-3-2			2019+A1
Voltage fluctuation	EN 6100-3-3			2019+A1

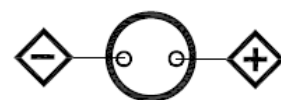
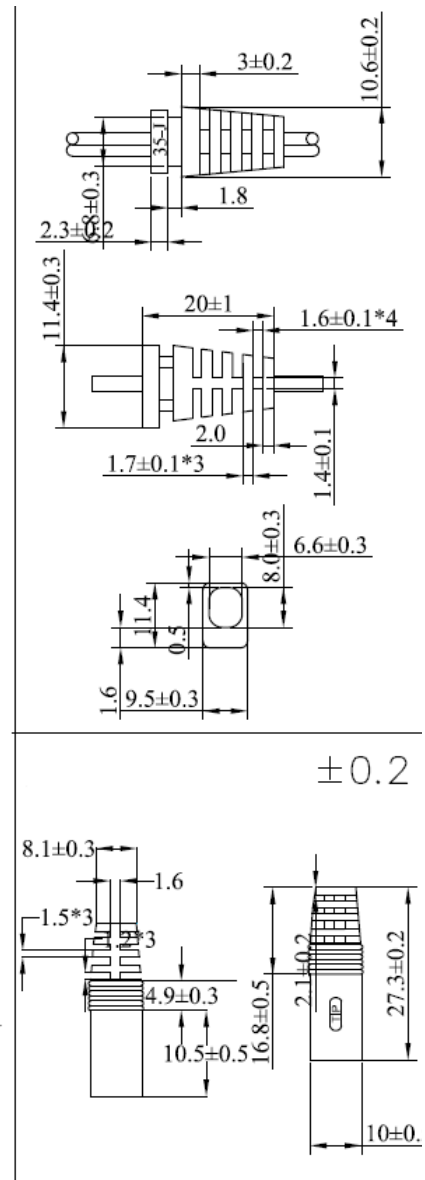
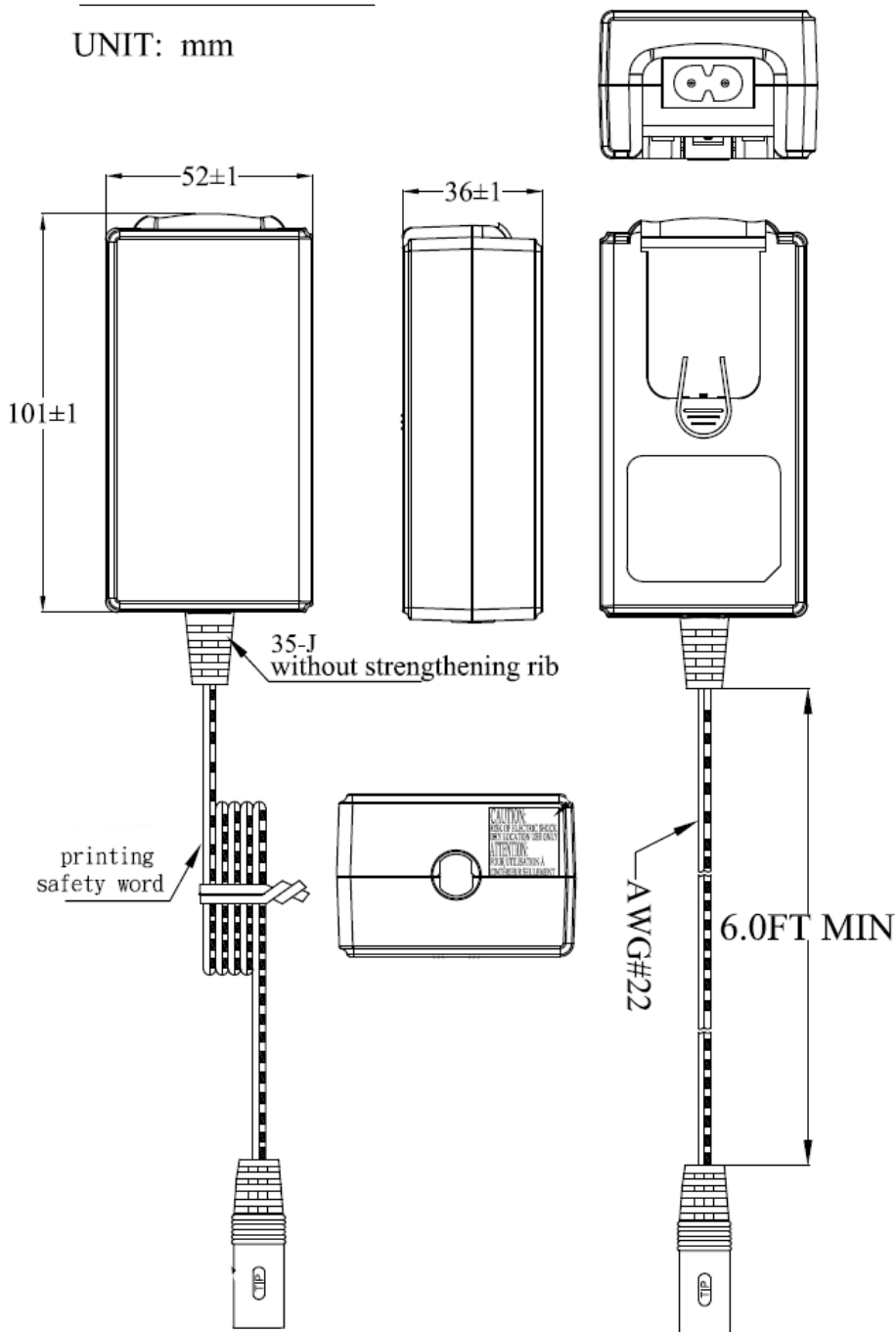
Safety Approvals

	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)

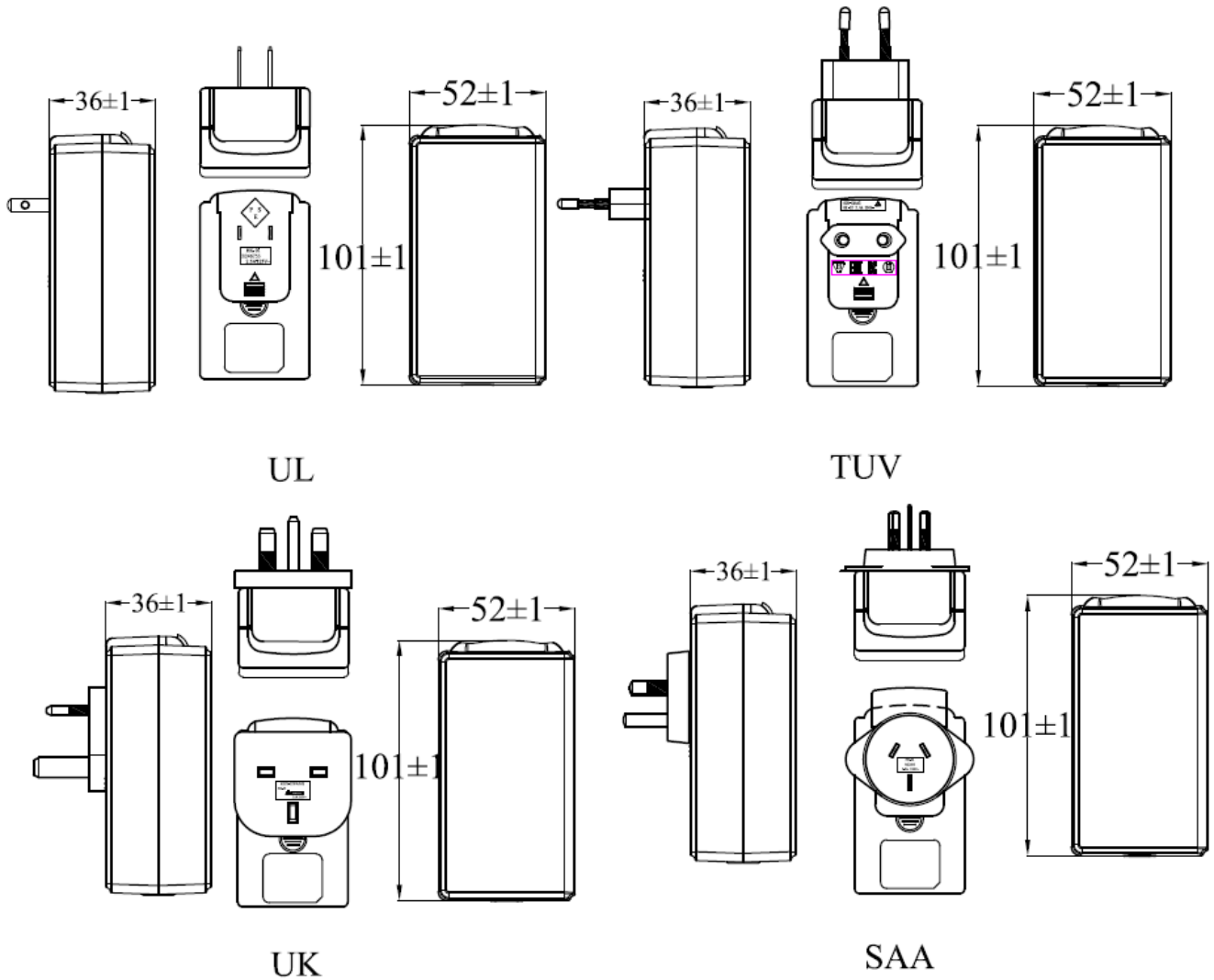
Mechanical Drawing

OVERALL DRAWING

UNIT: mm

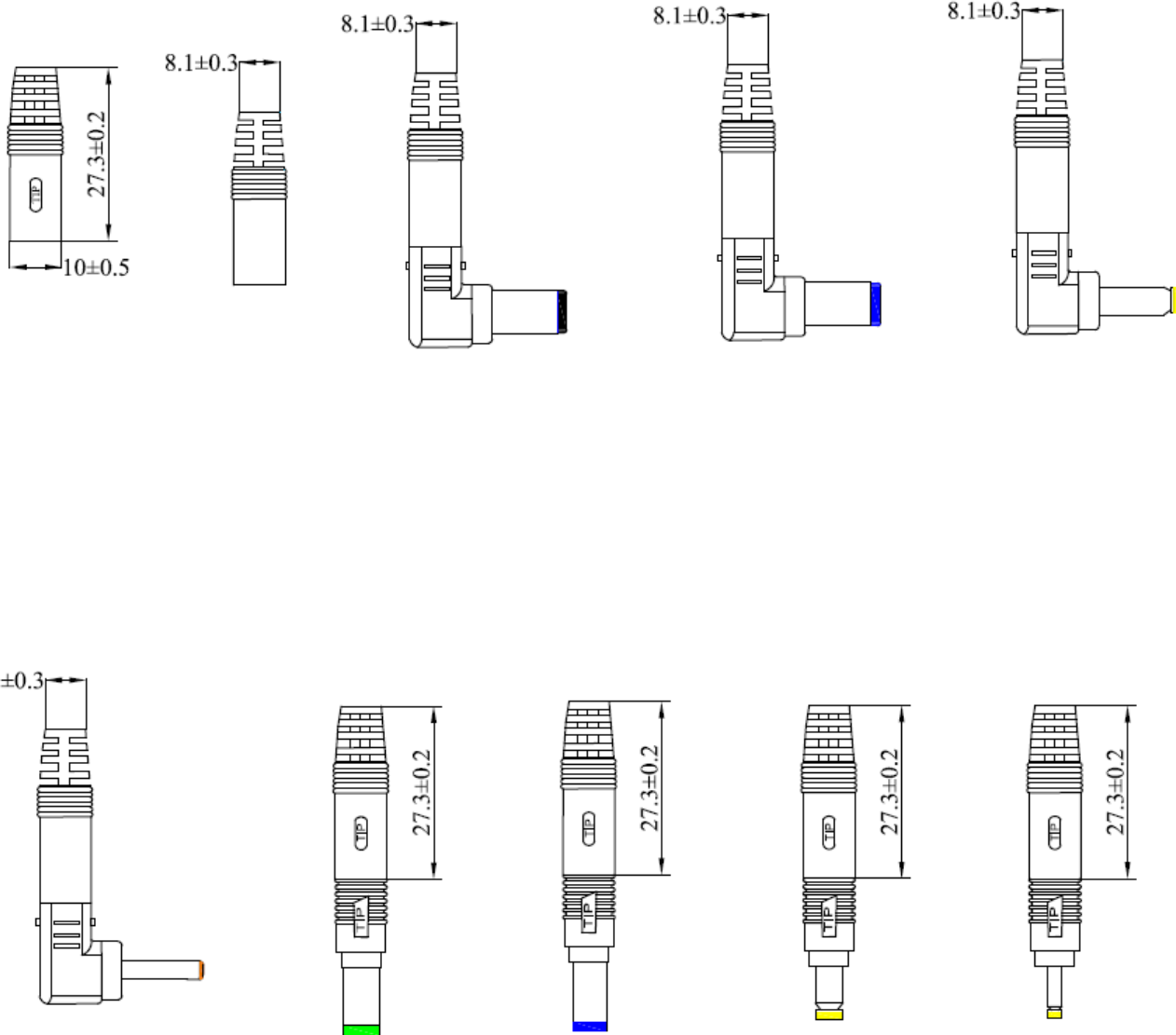


Mechanical Drawing (Continued)



Mechanical Drawing (Continued)

UNIT: mm

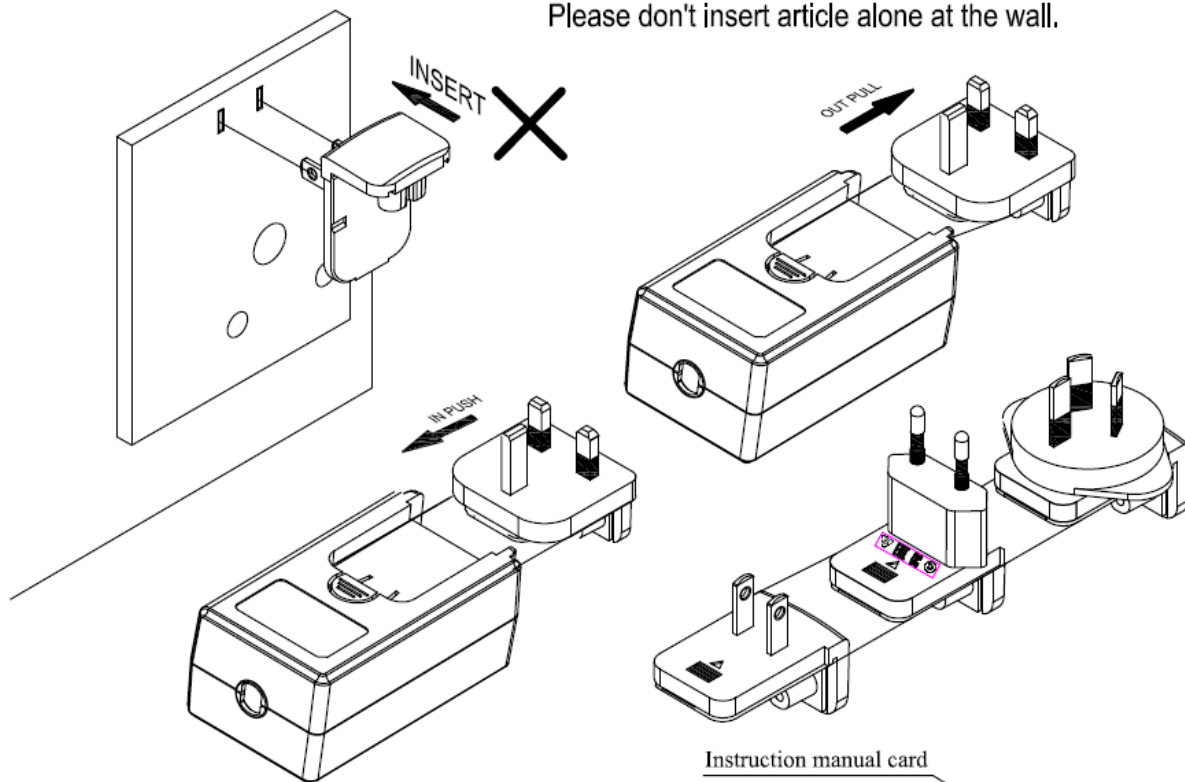


AC – DC

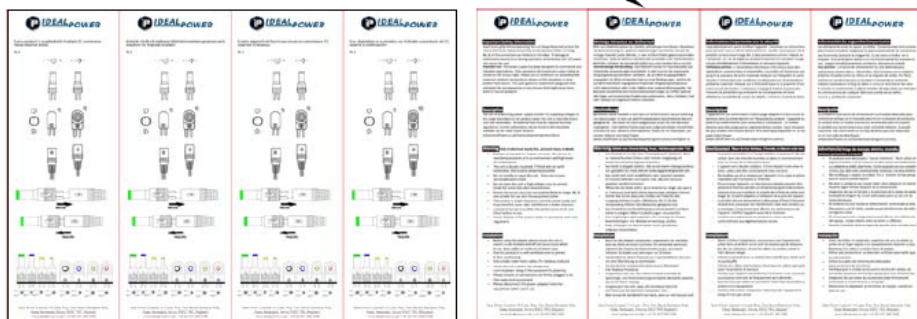
Use Specification

WARNING!

Please don't insert article alone at the wall.

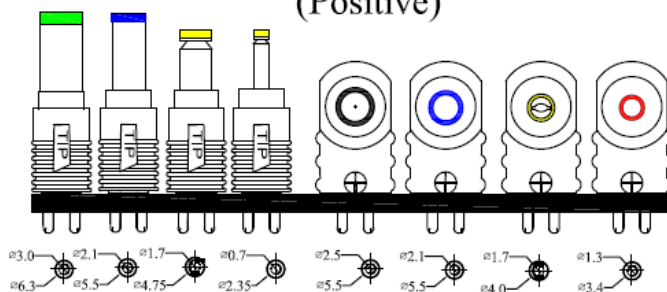
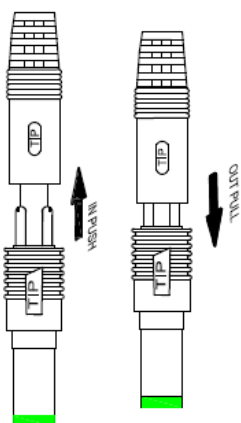


Instruction manual card



(Positive)

(Back)



Packaging

Inner Box

UNIT: mm

BOX(☒ Normal BOX ☐ Corrugated BOX)

Length: 145

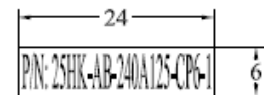
Width: 75

Height: 65

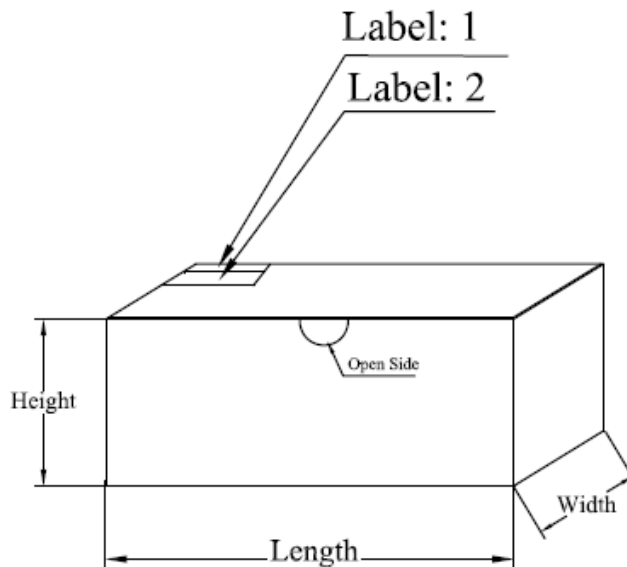
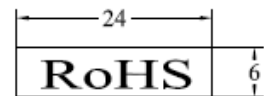
(UK Plug fitted to SPS Body)

(Put US, EU, AU Plug inside the box)

Label: 1



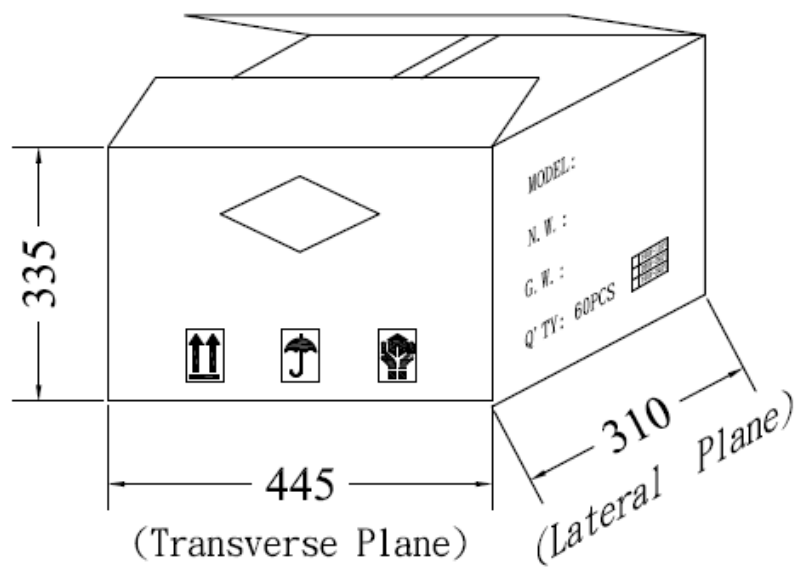
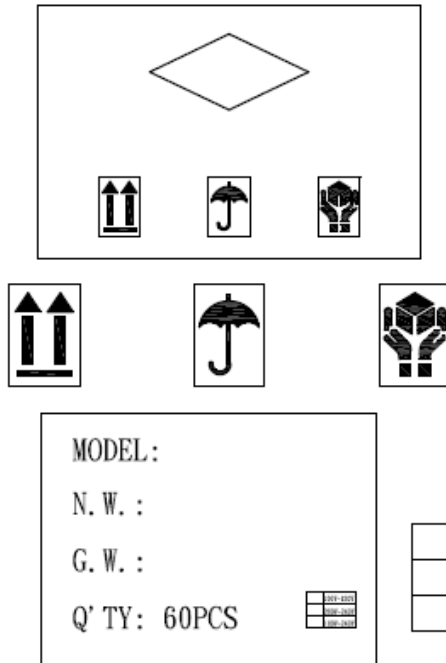
Label: 2



Packaging (continued)

Carton

UNIT: mm

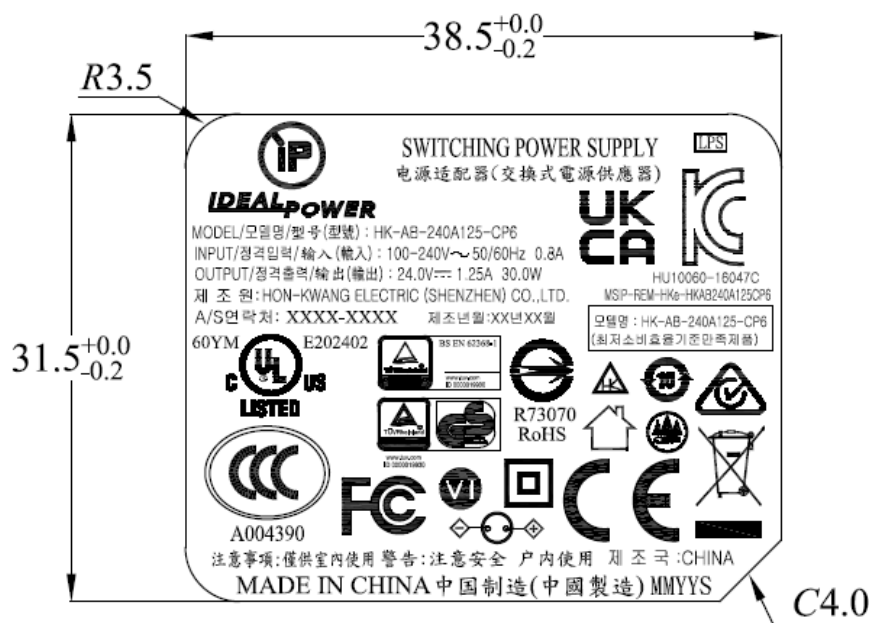


NAME-PLATE: WHITE CHARACTERS BLACK BACKGROUND.

UNIT: mm

M M Y Y S

month | |
year |
made in China
by Hon-kwang



CASE

NAME-PLATE: BLACK CHARACTERS WHITE BACKGROUND.

