

DATE: 2025/10/28 (YY/MM/DD)

Customer : ASKA ELECTRIC SERVICE CO.,LTD.

Confidential

APPROVAL SHEET

RoHS Compliant

PRODUCT: AC/DC ADAPTOR

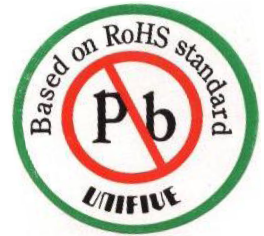
CUSTOMER MODEL:

MODEL: UV324-0530

PART NO. JASK-0481EZD

V :200312

V1



Receiver's stamp or signature

PLEASE APPROVE & RETURN BEFORE 2025/11/11
OR WE WOULD REGARD IT BEEN CONFIRMED.

RESPONSIBLE	APPROVED	ISSUED
楊全亮	楊紅梅	張穎穎

「 Due to market conditions or safety regulations change, we may submit your request for a change in parts or safety specifications. If you have not placed an order for more than two years, we will not initiate these changes until we receive a new order from you, and we will reconfirm it and get back to you as to whether you can continue production or need to make changes. 」

「 No part of this specification may be reproduced or reprinted in any form or by any means without the prior written permission of the Company. 」

Revised History

NO.	Revised Date	Description	Approved	ISSUED
1	2020/3/12	FIRST ISSUED	楊紅梅	韋麗雲
2	2020/4/2	CHANGE LABEL	楊紅梅	韋麗雲
3	2025/10/28	CHANGE RIPPLE & NOISE	楊紅梅	張穎穎

UNIFIVE

UNIFIVE CO., LTD

[illegible]

UNIFIVE CO., LTD.

CONTENTS :

1.INPUT SPECIFICATION

2.OUTPUT SPECIFICATION

3.MECHANICAL

4.RELIABILITY

5.ENVIRONMENT

6.OUTLOOKING

7.QC CHECK

8.SAFETY

9.DIMENSION

10.PACKING

11.LABEL

UNIFIVE

1.INPUT SPECIFICATION

ITEM	SPECIFICATION	MIN	TYPICAL	MAX
AC INPUT VOLTAGE	SINGLE PHASE		100~240Vac	
AC INPUT VOLTAGE RANGE	SINGLE PHASE	90Vac		264Vac
AC INPUT FREQUENCY	SINGLE PHASE	47Hz	50/60Hz	63Hz
AC INPUT CURRENT	TYPICAL INPUT VOLTAGE & OUTPUT AT FULL LOAD.		0.34A	0.6A
AC INRUSH CURRENT	TYPICAL INPUT VOLTAGE & FOR A COLD START AT 25°C.			70A
DOE EFFICIENCY	THE ADAPTOR SHALL ACCORD WITH THE REQUEST OF DOE VI	81.39%		
STAND BY CONSUMPTION	THE ADAPTOR SHALL ACCORD WITH THE REQUEST OF DOE VI			0.1W
LEAKAGE CURRENT	MAX INPUT VOLTAGE			0.5mA

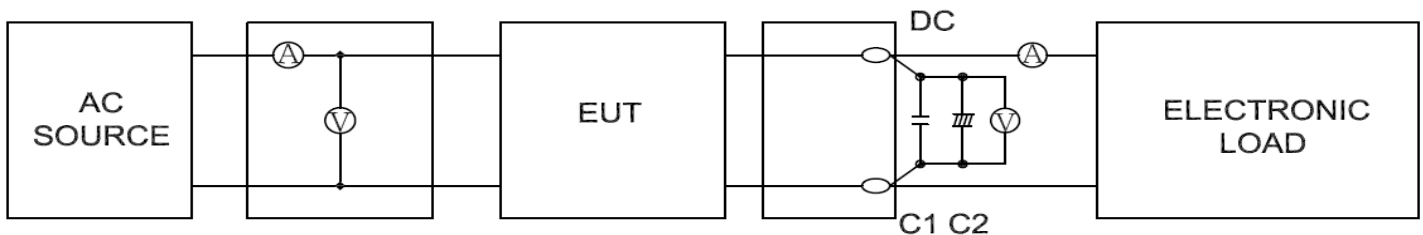
2.OUTPUT SPECIFICATION

ITEM	SPECIFICATION	MIN	TYPICAL	MAX
NOMINAL DC OUTPUT VOLTAGE			5Vdc	
DC OUTPUT VOLTAGE RANGE	TYPICAL OUTPUT VOLTAGE	4.75Vdc		5.25Vdc
LOAD CURRENT				3A
RIPPLE	TYPICAL INPUT VOLTAGE , FULL LOAD CURRENT , 25°C			200mV
NOISE	TYPICAL INPUT VOLTAGE , FULL LOAD CURRENT , 25°C			200mV
HOLD-UP TIME	AT TYPICAL INPUT VOLTAGE AND FULL LOAD ,50Hz	10mS		
TURN-ON DELAY	TYPICAL INPUT VOLTAGE AND FULL LOAD CURRENT			3S
DYNAMIC TEST	TYPICAL INPUT VOLTAGE,20%-80% LOAD,TH 5mS TL 5mS, 100mA/uS	4.5Vdc		5.5Vdc

PROTECTION

OVER CURRENT PROTECTION	AUTO RECOVERY
SHORT CIRCUIT PROTECTION	THE ADAPTOR SHALL NOT DAMAGE BY SHORT TO THE DC OUTPUT GROUND
OVER VOLTAGE PROTECTION	AUTO RECOVERY

*TEST MEASURES

C1: 0.1 μ F CERAMICS CAPACITORC2: 10 μ 100V ALUMINUM CAPACITOR

THE BANDWIDTH OF OSCILLOSCOPE IS SET WITH 20MHz

3.MECHANICAL

ITEM	SPECIFICATION OR TEST CONDITION	ACCEPTANCE CRITERIA
BENDING TEST	NORMAL TEMPERATURE THE PLUG SHALL WITHSTAND WEIGHT OF 2.94N,IT SWINGS FROM LEFT TO RIGHT AT AN ANGLE OF 60DEG. 500 TIMES MIN.,S/R SHALL WITHSTAND WEIGHT OF 2.94N. IT SWING FROM LEFT TO RIGHT AT AN ANGLE OF 60DEG. 500 TIMES MIN.,BENDING SPEED 40CYCLE/MIN.	NO SHORT CIRCUIT THE BREAK RATE OF WIRE SHALL BE BELOW 30%.
VIBRATION	DURATION:30MINUTES AMPLITUDE:0.35mm FREQUENCY RANGE:10Hz...55Hz...10Hz SWEEP RANGE: APPROXIMATELY 1 OCTAVE / MIN	THERE SHALL BE NO ABNORMALITY ON THE APPEARANCE STRUCTURE AND OPERATING

4.RELIABILITY

ITEM	TEST CONDITION	ACCEPTANCE CRITERIA
TEMPERATURE UP WITH FULL LOAD	TEST AT SURFACE OF THE CASE WITH TYPICAL AC INPUT AND FULL LOAD IN OUTPUT 50/60Hz	TEMPERATURE RISEN MEET SAFETY APPROVALED AT THE SURFACE OF CASE
HI-POT TEST	BETWEEN INPUT & OUTPUT 3000Vac 60 SECONDS 10mA.IT IS BASE ON EN60950 5.2.2 TEST PROCEDURE.FOR MASS PRODUCTION,IT IS TESTED BY 3300Vac/1 SECOND.	NO DAMAGE
INSULATION RESISTANCE	INPUT TO OUTPUT, DC 500V	>50M Ω (below at R.H 70%). >10M Ω (at R.H 71 ~ 95%). *Put it into normal temperature & humidity for 24H,when testing. (Ta:20~30 °C, below R.H 70%)
MTBF	TYPICAL INPUT & FULL LOAD AT 25°C	100000 HOURS (min)
BURN-IN TEST	AT 30°C ($\pm 10^{\circ}\text{C}$),TYPICAL INPUT VOLTAGE	2~4 HOURS
IEC61000-4-2 ESD TEST	AIR DISCHARGE $\pm 8\text{KV}$ CONTACT DISCHARGE $\pm 4\text{KV}$	NO DAMAGE 1 ROUND/SEC ABOVE
IEC61000-4-5 SURGE WITHSTAND	$\pm 1\text{KV}$	NO DAMAGE

5.ENVIRONMENT

ITEM	SPECIFICATION OR TEST CONDITION	MIN	TYPICAL	MAX
OPERATING TEMPERATURE		0°C		40°C
STORAGE TEMPERATURE		-20°C		65°C
OPERATING HUMIDITY	NON-CONDENSING	5%RH		95%RH
STORAGE HUMIDITY	NON-CONDENSING	5%RH		95%RH

6.OUTLOOKING

DIMENSION	72.7(L)*35.7(W)*53.0(H) TYP
WEIGHT	ABOUT 118.33g
AC INPUT TYPE	WALL MOUNT
DC OUTPUT TYPE	EIAJ2(4.0*1.7*9.5)
DC OUTPUT CABLE	USE UL 1185 18 AWG WIRE
INDICATION	LASER MARKING
FLAMMABILITY OF POWER SUPPLY ADAPTER ENCLOSURE IS 94V0	
FLAMMABILITY OF PWB IS 94V0	

7.QC CHECK

ALL OF THE QUANTITY SHALL BE CHECKED BEFORE SHIPMENT,CHECK ITEM AS BELOW:

- (1)DC PLUG POLE CHECK
- (2)DC OUTPUT VOLTAGE CHECK
- (3)HI-POT&INSULATION CHECK
- (4)OUTLOOKING CHECK

STANDARD OF RoHS

NO.	chemical substances group
1	Cadmium
2	Chromium(VI)
3	Lead
4	Mercury
5	Polybrominated biphenyls (PBBs)
6	Polybrominated diphenyl ethers(PBDEs)

Effective in 1st Jan. 2019

NO.	chemical substances group
1	Bis (2-ethylhexyl) phthalate (DEHP)
2	Butyl benzyl phthalate (BBP)
3	Dibutyl phthalate (DBP)
4	Diisobutyl phthalate (DIBP)

FOR ENVIRONMENTAL IMPACT SUBSTANCES CONTAINED IN PARTS. COMPLY WITH "RoHS 2.0"

8.SAFETY

COMPLY SAFETY STANDARDS	STANDARD
CUL	UL/EN MEET
PSE	別表第八
CE-LVD	EN60950

Manufacturer: UNIFIVE TECHNOLOGY (SHENZHEN) CO., LTD.

Factory Address: 101,201,301,BLDG E DATIANYANG INDUSTRIAL ZONE LONGMEN VLG
HONGXING SONGGANG ST BAOAN DISTRICT SHENZHEN GUANDONG, 518105 CHINA

8.1 EMC

8.1.1 EMI

MEET VCCI class B , FCC class B , CISPR 32 class B ,EN 55032

The EMC result will be affected when connecting of end device. The end user should be re-test the EMC of the complete set of equipments

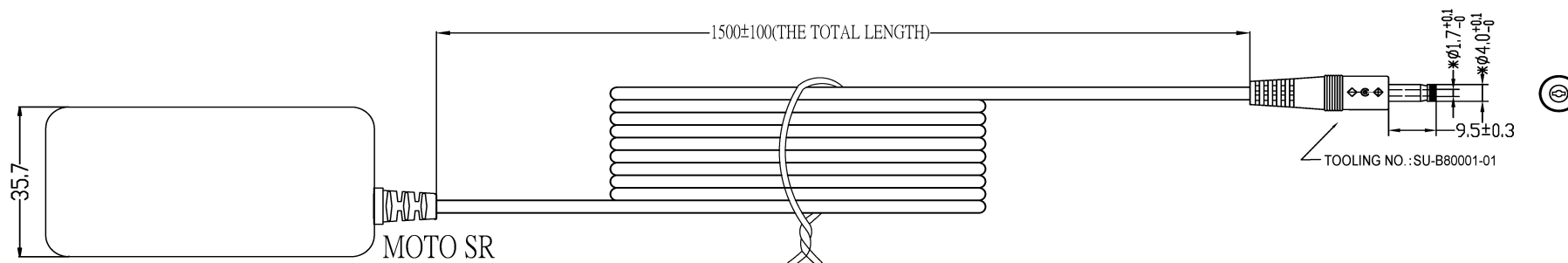
The value which list on the spec,were tested by resistance.

THE EUT HAS BEEN TESTED ACCORDING TO THE FOLLOWING SPECIFICATIONS:

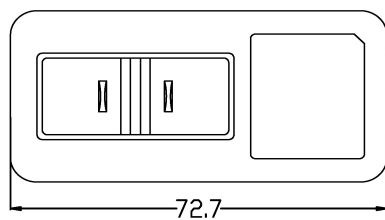
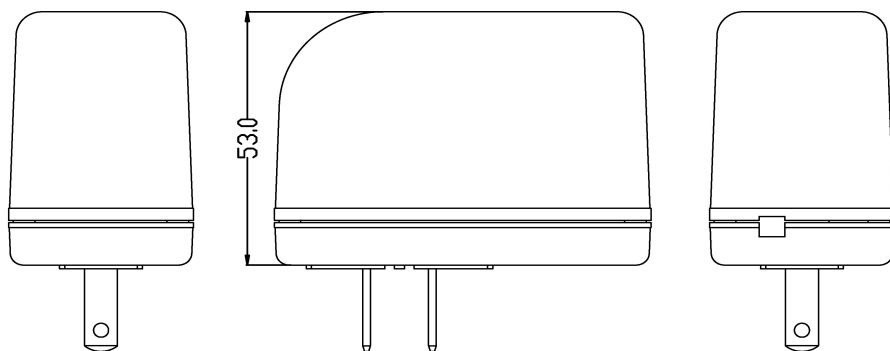
EMISSION			
STANDARD	TEST TYPE	RESULT	REMARKS
EN 55032 :2015	CONDUCTED TEST	MEET	MEETS CLASS B LIMIT
	RADIATED TEST	MEET	MEETS CLASS B LIMIT
EN 61000-3-2:2014	HARMONIC CURRENT EMISSIONS	MEET	MEETS CLASS A LIMIT
EN61000-3-3:2013	VOLTAGE FLUCTUATIONS & FLICKER	MEET	MEET THE REQUIREMENTS.

IMMUNITY(EN 55024:2010+A1:2015)			
STANDARD	TEST TYPE	RESULT	REMARKS
EN 61000-4-2:2009	ELECTROSTATIC DISCHARGE IMMUNITY TEST	MEET	MEETS THE REQUIREMENTS OF PERFORMANCE CRITERION B
EN 61000-4-3: 2006+A1:2008+A2:2010	RADIATED,RADIO-FREQUENCY, ELECTROMAGNETIC FIELD IMMUNITY TEST	MEET	MEETS THE REQUIREMENTS OF PERFORMANCE CRITERION A
EN 61000-4-4:2012	ELECTRICAL FAST TRANSIENT / BURST IMMUNITY TEST.	MEET	MEETS THE REQUIREMENTS OF PERFORMANCE CRITERION B
EN 61000-4-5:2014	SURGE IMMUNITY TEST	MEET	MEETS THE REQUIREMENTS OF PERFORMANCE CRITERION B
EN 61000-4-6:2014	IMMUNITY TO CONDUCTED DISTURBANCES, INDUCED BY RADIO-FREQUENCY FIELDS	MEET	MEETS THE REQUIREMENTS OF PERFORMANCE CRITERION A
EN 61000-4-8:2010	POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST.	MEET	MEETS THE REQUIREMENTS OF PERFORMANCE CRITERION A
EN 61000-4-11:2004	VOLTAGE DIPS,SHORT INTERRUPTIONS AND VOLTAGE VARIATIONS IMMUNITY TESTS	MEET	MEETS THE REQUIREMENTS OF VOLTAGE DIPS: 1.>95% 0.5 CYCLE REDUCTION-PERFORMANCE CRITERION B 2. 30% 25 CYCLE REDUCTION-PERFORMANCE CRITERION C VOLTAGE INTERRUPTIONS: 3.>95% 250 CYCLE REDUCTION-PERFORMANCE CRITERION C
2016/C 272/01 4.2.2.1	MANUFACTURERS TO INDICATE THE FOLLOWING THREE ELEMENTS: THEIR (1) NAME (2) REGISTERED TRADE NAME OR REGISTERED TRADE MARK (192) AND (3) THE ADDRESS AT WHICH THEY CAN BE CONTACTED, ON THE PRODUCT OR, WHERE THAT IS NOT POSSIBLE, ON ITS PACKAGING OR IN A DOCUMENT ACCOMPANYING THE PRODUCT."	MEET	A:THE RELATED INFORMATION IS SHOWED ON SPECIFICATION SHEET,WHEN THE LIMITED ROOM OF ADAPTOR. B:THE RELATED INFORMATION IS SHOWED ON THE RELATED PACKAGE,IF CUSTOMER REQUIREMENT. C:THE RELATED INFORMATION SHOWED ON THE END DEVICE.

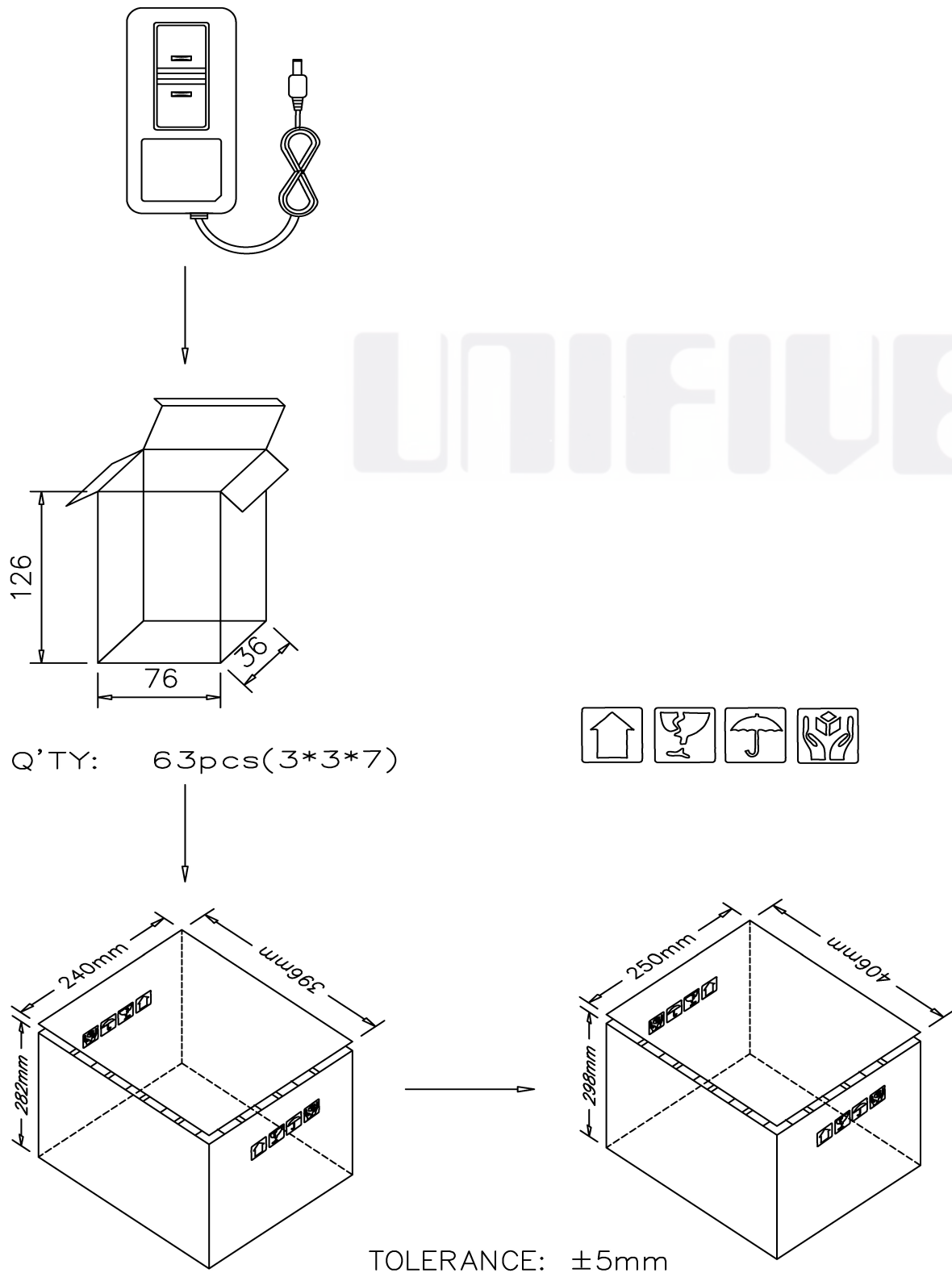
9.DIMENSION

CASE TOLERANCE: $\pm 0.8\text{mm}$ 

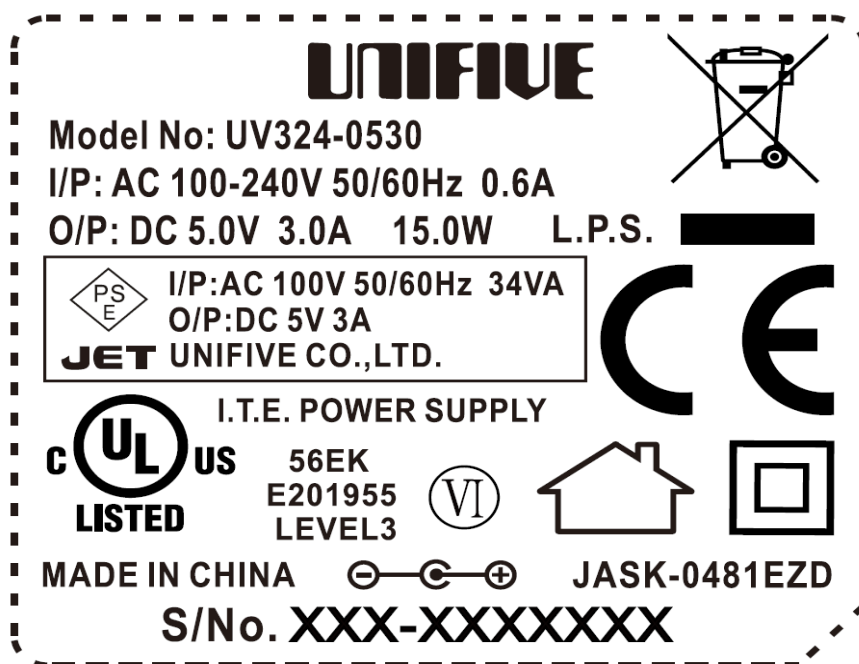
MEMO: PLUG TYPE EIAJ2



10.PACKING



11.LABEL (LASER MARKING)



S/No. XXX - XXXXXXXX

↓ ↓ ↓

YEAR MONTH SERIAL NUMBER

About S/No. From the year of 2010, notation of year will be as below;

ex. 2020/03...L03-XXXXXXX

2021/01...M01-XXXXXXX

2022/01...N01-XXXXXXX

2023/01...P01-XXXXXXX

2024/01...Q01-XXXXXXX

2025/01...R01-XXXXXXX

(A,B,C~Z)the letters of "I" and "O" will not be used.(In order not to make confusion of 1 and 0)