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Please note, Follow-Up Procedure Revisions or Report Revisions do not include Authorization Pages, Indices, Section General, and/or Appendices unless revisions were required or requested.

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Please find attached the related material on Project 4790997530

For your convenience, the below describes the related updates:

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E200916-20231109-CertificateofCompliance
E200916-20231109-Description
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Illustration-8-Total
E200916-20231109-TestRecord

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Model No(s).	Section	Requirements Evaluated to (US and/or CN)
JT-24V850, JT-24V1500 JT-24V1200 -12V2100 -12V3000 -12V4200 -12V5000	1	US/CN
JT-24V450, -24V450-IP64, JT-12V1000, -12V1000-IP64, JT-6V1000, JT-6V1200, and JT-6V2000.	2	US/CN
JT-DC6V1000, JT-DC12V400, JT-DC15V400, JT-DC18V400	3	US/CN
Direct Plug-in Class 2 Power Units, Models JT-12V1250, -12V1700, -24V250, -DC12V1000, -DC12V1200, -DC15V500, DC9V500, -DC12V500, -DC20V500, - DC24V500, -DC12V600, -DC12V800.	4	US/CN
Direct Plug-in Class 2 Power Unit, Models JT-24V650.	5	US/CN
JT-12V, JT-24V	6	US/CN
Class 2 Power Units for "Indoor Use": JT-DC3V150, JT-DC4.5V150, JT- DC4.5V300, JT-DC4.5V400, JT-DC6V150, JT-DC6V500, JT-DC6V800, JT-DC12V200, JT-DC12V300, JT-DC15V200, JT-DC24V150, JT-DC24V200, JT-DC24V300, JT-DC15V600, JT-DC15V800 and JT-DC24V850	7	US/CN
JT-12V500, JT-12V600, JT-12V830, JT- 24V300 JT-12V2500, JT-24V1000, JT- 24V1660, JT-24V2000, JT-24V2500, JT- 24V3000	8	US/CN
Class 2 Direct Plug-in Power Adapter, EI41 AC/AC Series, Models JT-4.5V1000- OUTDOOR-D, JT-6V1000-OUTDOOR-D, JT- 12V500-OUTDOOR-D, JT-12V600-OUTDOOR-D, JT-15V200-OUTDOOR-D, JT-15V400- OUTDOOR-D, JT-15V600-OUTDOOR-D and JT- 24V250-OUTDOOR-D		

Model No(s).	Section	Requirements Evaluated to (US and/or CN)
Class 2 Direct Plug-in Power Adapter, EI41 AC/DC Series, Models JT-DC3V300- OUTDOOR-D, JT-DC12V200-OUTDOOR-D, JT- DC12V300-OUTDOOR-D, JT-DC12V400- OUTDOOR-D, JT-DC12V500-OUTDOOR-D, JT- DC12V600-OUTDOOR-D, JT-DC24V50- OUTDOOR-D, JT-DC24V200-OUTDOOR-D and JT-DC24V300-OUTDOOR-D.	9	US and CN
Class 2 Direct Plug-in Power Adapter, EI48 AC/AC Series, Models JT-6V2000- OUTDOOR-D, JT-12V830-OUTDOOR-D, JT- 12V1000-OUTDOOR-D, JT-12V1250-OUTDOOR- D, JT-12V1700-OUTDOOR-D, JT-24V300- OUTDOOR-D, JT-24V450-OUTDOOR-D, JT- 24V650-OUTDOOR-D and JT-24V850- OUTDOOR-D.	10	US and CN
Class 2 Direct Plug-in Power Adapter, EI48 AC/DC Series, Models JT-DC24V400- OUTDOOR-D, JT-DC24V500-OUTDOOR-D and JT-DC24V600-OUTDOOR-D.	11	US and CN
Class 2 Direct Plug-in Power Adapter, EI57 AC/AC Series, Models JT-12V2100- OUTDOOR-D, JT-12V2500-OUTDOOR-D, JT- 24V1200-OUTDOOR-D and JT-24V1000- OUTDOOR-D.	12	US and CN
Class 2 Direct Plug-in Power Adapter, EI57 AC/DC Model JT-DC24V850-OUTDOOR-D	13	US and CN
Class 2 Direct Plug-in Power Supply: Models JT-DC4.5V100, JT-DC4.5V450 and JT-DC4.5V500.	14	US and CN
Class 2 Direct Plug-in Power Supply: Models JT-DC24V50, JT-DC24V100 and JT- DC24V125.	15	US and CN
Class 2 Direct Plug-in Power Supply: Models JT-DC4.5V600, JT-DC4.5V650, JT- DC4.5V700 and JT-DC4.5V715	16	US and CN
Class 2 Direct Plug-in Power Supply: Models JT-DC24V335 and JT-DC24V400.	17	US and CN
Class 2 Direct Plug-in Power Unit: Model JT-DC24V210	18	US and CN

Model No(s) .	Section	Requirements Evaluated to (US and/or CN)
Class 2 Direct Plug-in Power Unit: Models JT-DC3V2.5A, JT-DC4.5V2.5A, JT-DC5V2.5A, JT-DC6V1A, JT-DC6V2.5A, JT-DC9V1.5A, JT-DC9V2.5A, JT-DC12V0.5A, JT-DC12V0.8A, JT-DC12V1A, JT-DC12V1.5A, JT-DC12V2.1A, JT-DC12V2.5A, JT-DC24V0.5A and JT-DC24V1.25A.	19	US and CN
Class 2 Direct Plug-in Power Unit: JT-DC4.5V350-OUTDOOR-D, JT-DC4.5V800-OUTDOOR-D, JT-DC24V100-OUTDOOR-D	20	US and CN
Class 2 Direct Plug-in Power Unit: JT-4.5V450, JT-4.5V715, JT-4.5V1000, JT-4.5V1800, JT-24V125, JT-24V210, JT-24V335	21	US and CN
Class 2 Direct Plug-in Power Unit: JT-24V625	22	US and CN
Class 2 Direct Plug-in Power Unit: JT-DC9V200	23	US and CN
Class 2 Direct Plug-in Power Unit: JT-DC4.5V1000, JT-DC6V500, JT-DC6V1000	24	US and CN
Class 2 Power Supplies, Outdoor use Models JT-DC12V0.60A-OUTDOOR-D, JT-DC12V1.00A-OUTDOOR-D, JT-DC12V1.25A-OUTDOOR-D, JT-DC12V0.80A-OUTDOOR-D, JT-DC24V0.60A-OUTDOOR-D, JT-DC24V0.50A-OUTDOOR-D, JT-DC5V3.00A-OUTDOOR-D, JT-DC6V2.00A-OUTDOOR-D, JT-DC6V1.50A-OUTDOOR-D, JT-DC18V0.60A-OUTDOOR-D, JT-DC15V0.80A-OUTDOOR-D	25	US and CN
Class 2 Power Supplies, Outdoor use Models JT-12V300-OUTDOOR-D, JT-12V200-OUTDOOR-D, JT-12V100-OUTDOOR-D	26	US and CN
Class 2 Power Supply, Models JT-DC12V1.00A, JT-DC12V0.80A, JT-DC15V0.80A, JT-DC08V1.30A and JT-DC06V1.50A; Class 2 Battery Charger, Models JT-DC15V0.80A, JT-DC15V1.2A-C, JT-DC15V1.0A-C, JT-DC15V0.8A-C	27	US and CN
Class 2 Power Supply, Models JT-DC8V500, JT-DC8V800, JT-DC8V1000 and JT-DC12V750 Class 2 Battery Charger, Models JT-DC8V500, JT-DC8V800	28	US and CN

JT-DC030V0150-B, JT-DC030V0200-B, JT-DC030V0300-B, JT-DC030V0400-B, JT-DC030V0500-B, JT-DC030V0600-B, JT-DC030V0800-B, JT-DC030V1000-B, JT-DC045V0200-B, JT-DC045V0300-B, JT-DC045V0450-B, JT-DC045V0500-B, JT-DC045V0600-B, JT-DC045V0800-B, JT-DC045V1000-B, JT-DC050V0200-B, JT-DC050V0250-B, JT-DC050V0300-B, JT-DC050V0400-B, JT-DC050V0500-B, JT-DC050V0600-B, JT-DC050V0800-B, JT-DC050V1000-B, JT-DC060V0200-B, JT-DC060V0250-B, JT-DC060V0300-B, JT-DC060V0400-B, JT-DC060V0500-B, JT-DC060V0600-B, JT-DC060V0800-B, JT-DC060V1000-B, JT-DC120V0100-B, JT-DC120V0150-B, JT-DC120V0200-B, JT-DC120V0250-B, JT-DC120V0300-B, JT-DC120V0400-B, JT-DC120V0500-B, JT-DC150V0200-B, JT-DC150V0400-B, JT-DC240V0050-B, JT-DC240V0100-B, JT-DC240V0125-B, JT-DC240V0150-B, JT-DC240V0200-B, JT-DC240V0250-B, JT-DC250V0050-B, JT-DC250V0100-B, JT-DC250V0125-B, JT-DC250V0150-B, JT-DC250V0200-B, JT-DC250V0240-B, JT-DC300V0040-B, JT-DC300V0060-B, JT-DC300V0080-B, JT-DC300V0100-B, JT-DC300V0120-B, JT-DC300V0150-B, JT-DC300V0180-B, JT-DC300V0200-B	29	USL and CNL
Class 2 Power Supply, Outdoor Use, Models JT-DCXXXVYYYY-A, Indoor Use, Models JT-DCXXXVYYYY- A(I), where XXX may be 030 to 300, YYYY may be 0220 to 1500	30	USL and CNL
Class 2 Power Supply, Model JT- DC120V1000	31	USL and CNL
Class 2 battery charger, Models JT-DC075V0500(I) and JT- DC080V0500(I)	32	USL and CNL
Outdoor Use, Models JT- DCXXXVYYYY, Indoor Use, Models JT-DCXXXVYYYY(I), where XXX may be 030 to 300, YYYY may be 0040 to 1000.	33	USL and CNL
Outdoor Use, Models JT- DCXXXVYYYY-C, where XXX may be 030 to 300, YYYY may be 0040 to 1000.	34	USL and CNL

Outdoor Use, Models JT-DCXXXVYYYY-D, where XXX may be 030 to 300, YYYY may be 0220 to 1500.	35	USL and CNL
Class 2 Power Supply Outdoor Use, Models JT-DCXXXVYYYY-E, Indoor Use, JT-DCXXXVYYYY-E(I) where XXX may be 030 to 300, YYYY may be 0300 to 2000.	36	USL and CNL
USL, CNL - Class 2 Power Supply Outdoor Use, Models JT-DCxxxVyyyy-F, where xxx may be 030 to 300, yyyy may be 0300 to 2000.	37	USL and CNL
Class 2 Power Supply Outdoor/indoor Use, Models JT-DCXXXVYYYY-G, where XXX may be 030 to 300, YYYY may be 0300 to 3500.	38	USL and CNL
Withdrawn	39	USL and CNL
Class 2 battery chargers, Models JT-DC8V0.8A-E, JT-DC8V0.5A-E, JT-DC6V0.8A-E, JT-DC7.5V0.5A-E, JT-DC6V0.5A-E	40	USL and CNL
Class 2 battery chargers, Models JT-DC15V1.2A-D, JT-DC15V1.0A-D, JT-DC15V0.8A-D, JT-DC12V1.0A-D	41	USL and CNL
Class 2 Power Supplies Indoor/Outdoor Use, Models JT-DC050V2000-F, JT-DC050V1500-F.	42	USL and CNL
Class 2 Power Supplies Indoor/Outdoor USE, Models JT-DC030V0300-C, JT-DC030V0500-C, JT-DC030V0600-C, JT-DC030V1000-C, JT-DC035V0200-C, JT-DC035V0300-C, JT-DC035V0450-C, JT-DC035V0800-C, JT-DC035V1000-C, JT-DC045V0200-C, JT-DC045V0300-C, JT-DC045V0600-C, JT-DC045V0800-C, JT-DC045V1000-C, JT-DC045V1200-C, JT-DC050V0500-C, JT-DC050V1000-C, JT-DC060V0300-C, JT-DC060V0600-C, JT-DC060V0600-C, JT-DC059V1000-C, JT-DC060V1000-C, JT-DC120V0300-C, JT-DC120V0500-C, JT-DC150V0300-C, JT-DC150V0400-C, JT-DC240V0150-C, JT-DC240V0250-C, JT-DC240V0300-C, JT-DC290V0120-C, JT-DC290V0200-C, JT-DC290V0240-C, JT-DC300V0120-C, JT-DC300V0200-C, JT-DC300V0240-C	43	USL and CNL
Class 2 Power Supplies Indoor/Outdoor USE, Models JT-DC030V1500-D, JT-DC030V2000-D, JT-DC045V1200-D, JT-DC045V1400-D, JT-DC045V1500-D, JT-DC045V2000-D, JT-DC050V1200-D, JT-DC050V1500-D, JT-DC050V2000-D, JT-DC055V1000-D, JT-DC055V1200-D, JT-DC059V1200-D, JT-DC059V1400-D, JT-DC059V1500-D, JT-DC060V1200-D, JT-DC060V1400-D, JT-DC060V1500-D, JT-DC070V1200-D, JT-DC075V1000-D, JT-DC090V0600-D, JT-DC090V0700-D, JT-DC090V1000-D, JT-DC120V0600-D, JT-DC120V0700-D, JT-DC150V0600-D, JT-DC180V0500-D, JT-DC240V0350-D, JT-DC240V0360-D, JT-DC240V0375-D, JT-DC250V0300-D, JT-DC250V0360-D, JT-DC290V0280-D, JT-DC290V0300-D, JT-DC300V0280-D, JT-DC300V0300-D	44	USL and CNL

Model No(s) .		Section	Requirements Evaluated to (US and/or CN)
Class 2 Power Supplies Indoor/Outdoor USE, Models JT-DC045V2000-F, JT-DC050V2000-F, JT-DC050V2400-F, JT-DC059V2000-F, JT-DC060V2000-F, JT-DC090V1200-F, JT-DC090V1500-F, JT-DC120V0750-F, JT-DC120V0800-F, JT-DC120V0900-F, JT-DC120V1000-F, JT-DC120V1250-F, JT-DC150V0800-F, JT-DC150V1000-F, JT-DC240V0400-F, JT-DC240V0500-F, JT-DC240V0600-F, JT-DC250V0400-F, JT-DC250V0500-F, JT-DC290V0300-F, JT-DC290V0400-F, JT-DC290V0450-F, JT-DC290V0500-F, JT-DC300V0300-F, JT-DC300V0400-F, JT-DC300V0500-F		45	USL and CNL
Class 2 Power Supplies Indoor/Outdoor USE, Models JT-DC120V0700-D1, JT- DC120V0600-D1, JT-DC120V0500-D1 and JT-DC120V1000-F1		46	USL and CNL
Class 2 Power Supplies Indoor/Outdoor USE, Models JT-DCxxxVyyyy-G1, where xxx may be 045 to 300, yyyy may be 0500 to 4000.		47	USL and CNL
Class 2 Battery Charger, Models JT-DC150V0500-E, JT- DC120V0500-E, JT-DC080V0800-E, JT-DC060V0800-E, JT- DC080V0500-E, JT-DC060V0500-E, JT-DC075V0500-E Class 2 Power Supply, Models JT-DC150V0500-E1, JT- DC120V0500-E1, JT-DC080V0800-E1, JT-DC060V0800-E1, JT-DC080V0500-E1, JT-DC060V0500-E1, JT-DC075V0500-E1		48	USL and CNL

CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2340034-0
Report Reference E200916-20231109
Date 16-Nov-2023

Issued to: CHANGZHOU JUTAI ELECTRONIC CO LTD
No.8 longfa Road Xinbei District
CHANGZHOU, Jiangsu Sheng 213031
China

This is to certify that representative samples of EPBU7 - Direct-plug-in and Cord-connected Class 2 Power Units Certified for Canada
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: CSA C22.2 NO. 223, 3rd Ed., Issue Date: 2015-12-01, Revision Date: 2017-06-01

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.


Deborah Jennings-Conner, VP Regulatory Services
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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2340034-0
Report Reference E200916-20231109
Date 16-Nov-2023

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
JT-DC060V0500-E	Class 2 Battery Charger
JT-DC060V0500-E1	Class 2 Power Supply
JT-DC060V0800-E	Class 2 Battery Charger
JT-DC060V0800-E1	Class 2 Power Supply
JT-DC075V0500-E	Class 2 Battery Charger
JT-DC075V0500-E1	Class 2 Power Supply
JT-DC080V0500-E	Class 2 Battery Charger
JT-DC080V0500-E1	Class 2 Power Supply
JT-DC080V0800-E	Class 2 Battery Charger
JT-DC080V0800-E1	Class 2 Power Supply
JT-DC120V0500-E	Class 2 Battery Charger
JT-DC120V0500-E1	Class 2 Power Supply
JT-DC150V0500-E	Class 2 Battery Charger
JT-DC150V0500-E1	Class 2 Power Supply


Deborah Jennings-Conner, VP Regulatory Services

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-2346309-0
Report Reference E200916-20231109
Date 16-Nov-2023

Issued to: CHANGZHOU JUTAI ELECTRONIC CO LTD
No.8 longfa Road Xinbei District
CHANGZHOU, Jiangsu Sheng 213031
China

This is to certify that representative samples of EPBU - Direct-plug-in and Cord-connected Class 2 Power Units
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 1310, Edition 7, Issue Date 2018-03-09, Revision Date 2022-06-09

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-2346309-0
Report Reference E200916-20231109
Date 16-Nov-2023

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
JT-DC060V0500-E	Class 2 Battery Charger
JT-DC060V0500-E1	Class 2 Power Supply
JT-DC060V0800-E	Class 2 Battery Charger
JT-DC060V0800-E1	Class 2 Power Supply
JT-DC075V0500-E	Class 2 Battery Charger
JT-DC075V0500-E1	Class 2 Power Supply
JT-DC080V0500-E	Class 2 Battery Charger
JT-DC080V0500-E1	Class 2 Power Supply
JT-DC080V0800-E	Class 2 Battery Charger
JT-DC080V0800-E1	Class 2 Power Supply
JT-DC120V0500-E	Class 2 Battery Charger
JT-DC120V0500-E1	Class 2 Power Supply
JT-DC150V0500-E	Class 2 Battery Charger
JT-DC150V0500-E1	Class 2 Power Supply


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File E200916
Project 4790997530

November 9, 2023

REPORT

On

DIRECT-PLUG-IN AND CORD-CONNECTED CLASS 2 POWER UNITS

CHANGZHOU JUTAI ELECTRONIC CO LTD
JIANGSU, CHINA

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DESCRIPTION

PRODUCT COVERED:

USL, CNL - Class 2 Battery Charger - Models JT-DC150V0500-E, JT-DC120V0500-E, JT-DC080V0800-E, JT-DC060V0800-E, JT-DC080V0500-E, JT-DC060V0500-E, JT-DC075V0500-E.

USL, CNL - Class 2 Power Supply - Models JT-DC150V0500-E1, JT-DC120V0500-E1, JT-DC080V0800-E1, JT-DC060V0800-E1, JT-DC080V0500-E1, JT-DC060V0500-E1, JT-DC075V0500-E1.

GENERAL:

The units covered by this report are direct plug-in Class 2 Battery Chargers and Class 2 Power Supplies.

Each unit consists of a switching mode transformer and other related electronic circuitry housed in a thermoplastic enclosure, and provided with non-polarized parallel blades for connection to line voltage.

ELECTRICAL RATINGS:

Model No.	Input			Output	
	V	Hz	A	V (dc)	A
JT-DC080V0500-E	100-240	50-60	0.3	8	0.5
JT-DC060V0500-E	100-240	50-60	0.3	6	0.5
JT-DC080V0800-E	100-240	50-60	0.3	8	0.8
JT-DC060V0800-E	100-240	50-60	0.3	6	0.8
JT-DC075V0500-E	100-240	50-60	0.3	7.5	0.5
JT-DC150V0500-E	100-240	50-60	0.3	15	0.5
JT-DC120V0500-E	100-240	50-60	0.3	12	0.5

Model No.	Input			Output	
	V	Hz	A	V (dc)	A
JT-DC080V0500-E1	100-240	50-60	0.3	8	0.5
JT-DC060V0500-E1	100-240	50-60	0.3	6	0.5
JT-DC080V0800-E1	100-240	50-60	0.3	8	0.8
JT-DC060V0800-E1	100-240	50-60	0.3	6	0.8
JT-DC075V0500-E1	100-240	50-60	0.3	7.5	0.5
JT-DC150V0500-E1	100-240	50-60	0.3	15	0.5
JT-DC120V0500-E1	100-240	50-60	0.3	12	0.5

TECHNICAL CONSIDERATIONS (Not For Field Representative's Use):

USL - Indicates investigation to the US requirements as noted in the Test Record.

CNL - Indicates investigation to the Canadian requirements as noted in the Test Record.

The maximum room ambient temperature is 40°C (Tmra).

MODEL DIFFERENCE:

Model JT-DC150V0500-E is similar to Models JT-DC120V0500-E, JT-DC080V0800-E, JT-DC060V0800-E, JT-DC080V0500-E, JT-DC060V0500-E, JT-DC075V0500-E except for related components rating according to model difference table and output ratings.

Model JT-DC150V0500-E1 is similar to models JT-DC120V0500-E1, JT-DC080V0800-E1, JT-DC060V0800-E1, JT-DC080V0500-E1, JT-DC060V0500-E1, JT-DC075V0500-E1 except for related components rating according to model difference table and output ratings.

Models JT-DC150V0500-E1, JT-DC120V0500-E1, JT-DC080V0800-E1, JT-DC060V0800-E1, JT-DC080V0500-E1, JT-DC060V0500-E1, JT-DC075V0500-E1 are similar to Models JT-DC150V0500-E, JT-DC120V0500-E, JT-DC080V0800-E, JT-DC060V0800-E, JT-DC080V0500-E, JT-DC060V0500-E, JT-DC075V0500-E respectively except for no FUSE in output connector.

CONSTRUCTION DETAILS:

Section General - The following construction items are described in Section General.

Markings	Segregation
Instruction Manual	Printed Wiring Boards
Abbreviations	Internal Wiring
Blades	Electrical Connections
Spacings	Insulation Tubing/ Sleeving
Corrosion Protection	C-UL Requirements

For CNL Unit, Cautionary Markings and instructions shall be provided in both English and French.

Markings - Cautionary Markings shall be provided in both English and French, See Sec. Gen, Markings. The following marking shall be additionally provided.

"Class 2 Battery Charger" for Models JT-DC150V0500-E, JT-DC120V0500-E, JT-DC080V0800-E, JT-DC060V0800-E, JT-DC080V0500-E, JT-DC060V0500-E, JT-DC075V0500-E.

"Backfeed Protection", "BFP", or the equivalent for Models JT-DC150V0500-E, JT-DC120V0500-E, JT-DC080V0800-E, JT-DC060V0800-E, JT-DC080V0500-E, JT-DC060V0500-E, JT-DC075V0500-E.

"Class 2 Power Supply" for Models JT-DC150V0500-E1, JT-DC120V0500-E1, JT-DC080V0800-E1, JT-DC060V0800-E1, JT-DC080V0500-E1, JT-DC060V0500-E1, JT-DC075V0500-E1.

For all models: "See instruction manual for use in countries other than the U.S.A." or "See instructions for input voltage conversion." or "See instructions if the input plug does not fit the power outlet."

For Models JT-DC150V0500-E, JT-DC120V0500-E, JT-DC080V0800-E, JT-DC060V0800-E, JT-DC080V0500-E, JT-DC060V0500-E, JT-DC075V0500-E only, "CAUTION" or "WARNING", followed by "Risk of Injury" or "Risk of Fire" and the following (a) or (b) and (c):

a) "Refer to the instruction manual for the size, type, and number of batteries to be charged." or

b) For Models JT-DC080V0500-E, JT-DC060V0500-E, JT-DC075V0500-E: "Charge only 6 V lead acid battery type with maximum 4.5 Ah rechargeable batteries.", for Models JT-DC080V0800-E, JT-DC060V0800-E: "Charge only 6 V lead acid battery type with maximum 7 Ah rechargeable batteries.", For Models JT-DC150V0500-E, JT-DC120V0500-E: "Charge only 12 V lead acid battery type with maximum 4.5 Ah rechargeable batteries."

c) "WARNING: USE ONLY RECHARGEABLE BATTERIES, OTHER TYPES MAY EXPLODE" and "AVERTISSEMENT: UTILISER UNIQUEMENT DES PILES RECHARGEABLES, LES PILES NON-RECHARGEABLE RISQUENT D'EXPLOSER."

Instruction Manual - See Sec. Gen. Instruction Manual for details. The following instructions shall be provided in the instruction manual.

"For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet, if needed." or "If the shape of the plug does not fit the power outlet, use an attachment plug adaptor of the proper configuration for the power outlet."

Illustrations - The following Illustrations are referenced in this report:

ILL. No.	Description
1	Enclosure drawing
2	PWB Trace and Component Layout
3	Transformer Structure And Schematic
4	Output connector drawing
5	Strain Relief drawing
6	Spring construction
7	Insulation sheet drawing

General - The general design, shape, and arrangement shall be as illustrated in the following figures, except where variations are specifically described.

MODEL JT-DC150V0500-E - FIG. 1
(ALSO REPRESENTS ALL OTHER MODELS)

General - Fig. 1 shows the external view of Model JT-DC150V0500-E and represents for all other models except as noted below.

1. Enclosure - R/C (QMFZ2), SABIC JAPAN L L C (E207780), Type 950(f1), all color, rated V-0, 120°C, minimum 1.5 mm thick. Two halves construction, secured together by ultrasonic welding. See ILL.1 for overall dimensions.
2. Blades - Non-polarized, plated copper alloy, two provided, each parallel blade located minimum 8 mm from side of enclosure platform edge, integrally molded on Bottom Enclosure.
3. Output Cord - R/C (AVLV2/8) or R/C(AVLV2), CSA Certificated, constructed by two conductors, Style 2468 or 2464, stranded, rated minimum 24 AWG, rated 80°C, 300 V. One end of cord terminates at internal connections; other end terminates in a non-standard polarized output connector with internal fuse (Listed (JDYX/7) or Listed (JDYX), CSA Certified, rated min. 125 Vdc, 2 A). See ILL.4 for detail.

Alternate - For Models JT-DC150V0500-E1, JT-DC120V0500-E1, JT-DC080V0800-E1, JT-DC060V0800-E1, JT-DC080V0500-E1, JT-DC060V0500-E1, JT-DC075V0500-E1, same above except for no fuse in connector.

4. Output Cord Strain Relief - PVC. Integrally molded with output cord. Secured by fit of flange to opening of enclosure. See ILL.5 for detail.
5. Input Contacts - Plated copper alloy. Connected between blades and PWB, see ILL. 6 for detail. Mechanically secured to blades before soldering.
6. Insulation sheet - R/C(QMFZ2), SHENZHEN TEEBON PLASTICS TECHNOLOGY CO LTD (E357515), Type TBPP-GK5 or TBPP-GK10W min. 0.3 mm thick, V-0, rated 130°C, HAI = 1, HWI = 4. Fixed on Enclosure Base and located between Enclosure and inside circuit. See ILL. 7 for dimensions details.

MODEL JT-DC150V0500-E - FIGS. 2 and 3
(ALSO REPRESENTS ALL OTHER MODELS)

General - Figs. 2 and 3 show the internal views of Model JT-DC150V0500-E and represents for all other models.

1. Printed Wiring Board (PWB) - R/C (ZPMV2), measured min. 1.0 mm thick, overall 50 by 33 mm, rated minimum 130°C, V-0. See ILL. 2 for components and trace layout.
2. Fuse (RF1) - R/C (FPEW2/8), DONGGUAN QINGYUAN ELECTRONIC CO LTD (E486101), Type FKNP1W, rated 250 V ac, 4.7 Ω , 1 W. Secured on PWB by soldering. Overall sleeved with R/C (YDPU2/8) tubing, rated min. 600 Vac, min 125°C, black color.
3. Bridge Diode (DB2) - Rated minimum 0.5 A, 1000 V.
4. Capacitors (C1, C2, C4) - Electrolytic with integral pressure relief, rated 400 V, 105°C. See model difference table for details.
5. Inductors (L1, L2) - Rated min. 1.5 mH.
6. Capacitor (C3) - Electrolytic with integral pressure relief, rated min. 4.7 μ F, 50 V, 105°C.
7. IC (U1) - Model CR5215, manufactured by CHENGDU CHIP-RAIL MICROELECTRONICS CO LTD.
8. Y-Capacitor (CY1) - Optional. Primary-to-Secondary. R/C (FOWX2/8), rated 250 V ac, min. 1000 pF, 125°C. The following types may be used.

Manufacturer	Type
JYA-NAY CO LTD (E201384)	JN
SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMENT ZONE SONGTIAN ENTERPRISE CO LTD (E208107)	CD
JYH HSU ELECTRONICS LTD (E356696)	JD series

9. Resistor (R6) - See model difference table for details.
10. Resistor (R10) - See model difference table for details.
11. LED - For Models JT-DC150V0500-E, JT-DC120V0500-E, JT-DC080V0800-E, JT-DC060V0800-E, JT-DC080V0500-E, JT-DC060V0500-E, JT-DC075V0500-E only.
12. Diodes (D1~D3) - See model difference table for details

13. Transformer (T1) - Transformer employed Class 130(B) Insulation System - R/C (OBJY2), JIANGSU SUNTRONICS ELECTRIC CO LTD (E525186), Type Wycoil 130-TM, TABLE XI. See ILL.3 for detail.

- A. Core - Ferrite, E-E type, measures 14 mm by 13 mm by 6 mm. Overall wrapped by two layers of tape, each measured 0.05 mm thick. Core considered as primary component.
- B. Primary Windings (N1, N2, N4) - R/C (OBMW2), ANSI Type MW75, Polyurethane coating only, see below windings information for turns and diameter.
- C. Secondary Winding (N3) - Triple Insulating Wire. R/C (OBJT2), SHANGHAI XIANGXIANG ELECTRON CO LTG (E308908), Type TKW-B1(XX) rated 130°C.

Windings Information:

Winding	Wire, mm	No. of Turns
PRI (N1)	0.15*1	40
PRI (N2)	0.15*1	130
PRI (N3)	See table below for details	
SEC (N4)	0.15*1	24

Model	Wire, mm	No. of Turns
JT-DC150V0500-E JT-DC120V0500-E JT-DC150V0500-E1 JT-DC120V0500-E1	0.40*1	22
JT-DC080V0800-E JT-DC060V0800-E JT-DC080V0800-E1 JT-DC060V0800-E1	0.50*1	13
JT-DC080V0500-E JT-DC060V0500-E JT-DC080V0500-E1 JT-DC060V0500-E1	0.40*1	15
JT-DC075V0500-E JT-DC075V0500-E1	0.40*1	15

- D. Bobbin - Two-flange bobbin. R/C (QMFZ2), CHANG CHUN PLASTICS CO LTD (E59481), Type T375HF, black color, rated V-0, 150°C, measured minimum 0.64 mm thick.
- E. Insulation tape - R/C (OANZ2), JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD (E165111), Type CT* (b)(g), all except clear color, rated 130°C, measured min. 0.05 mm thick.
- F. Primary Crossover Lead Insulation - Two layers of insulation tape are used as primary crossover lead insulation.
- G. Varnish - R/C (OBOR2), SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO LTD (E228349), Type ET-90(a), rated minimum 130°C.

F. Transformer insulation provided as follows:

Location	Material	Layers	Total Thickness (mm)
Winding Outer-wrap	Tape	2	0.10
N4 to N3	Tape	3	0.15
N3 to N2	Tape	3	0.15
N2 to N1	Tape	2	0.10
N1 to Core	Bobbin	-	0.64

Model Difference Table:

Models	C1,C2	C4	D1, D2 (minimum)	D3 (minimum)	R6@ (0.25W)	R10 (0.125W)
JT-DC150V0500-E JT-DC120V0500-E JT-DC150V0500-E1 JT-DC120V0500-E1	Max. 10 uF/400V /105°C	Max. 680 uF/25 V/105° C	1 A/400 V	2 A/100 V	1.0-1.6 Ω	14.3K Ω
JT-DC080V0800-E JT-DC060V0800-E JT-DC080V0800-E1 JT-DC060V0800-E1	Max. 10 uF/400V /105°C	Max. 1500 uF/16 V/105° C	1 A/400 V	2 A/40 V	1.1-1.6 Ω	13.7K Ω
JT-DC080V0500-E JT-DC060V0500-E JT-DC080V0500-E1 JT-DC060V0500-E1	Max. 6.8 uF/400V /105°C	Max. 680 uF/16 V/105° C	1 A/400 V	2 A/40 V	1.8-2.7 Ω	14.7K Ω
JT-DC075V0500-E JT-DC075V0500-E1	Max. 6.8 uF/400V /105°C	Max. 680 uF/16 V/105° C	1 A/400 V	2 A/40 V	1.8-2.7 Ω	13.0 KΩ

@ - See R6 theoretical calculation according to formula by ILL.8.

Figure-1 Page-1



Figure-2 Page-1

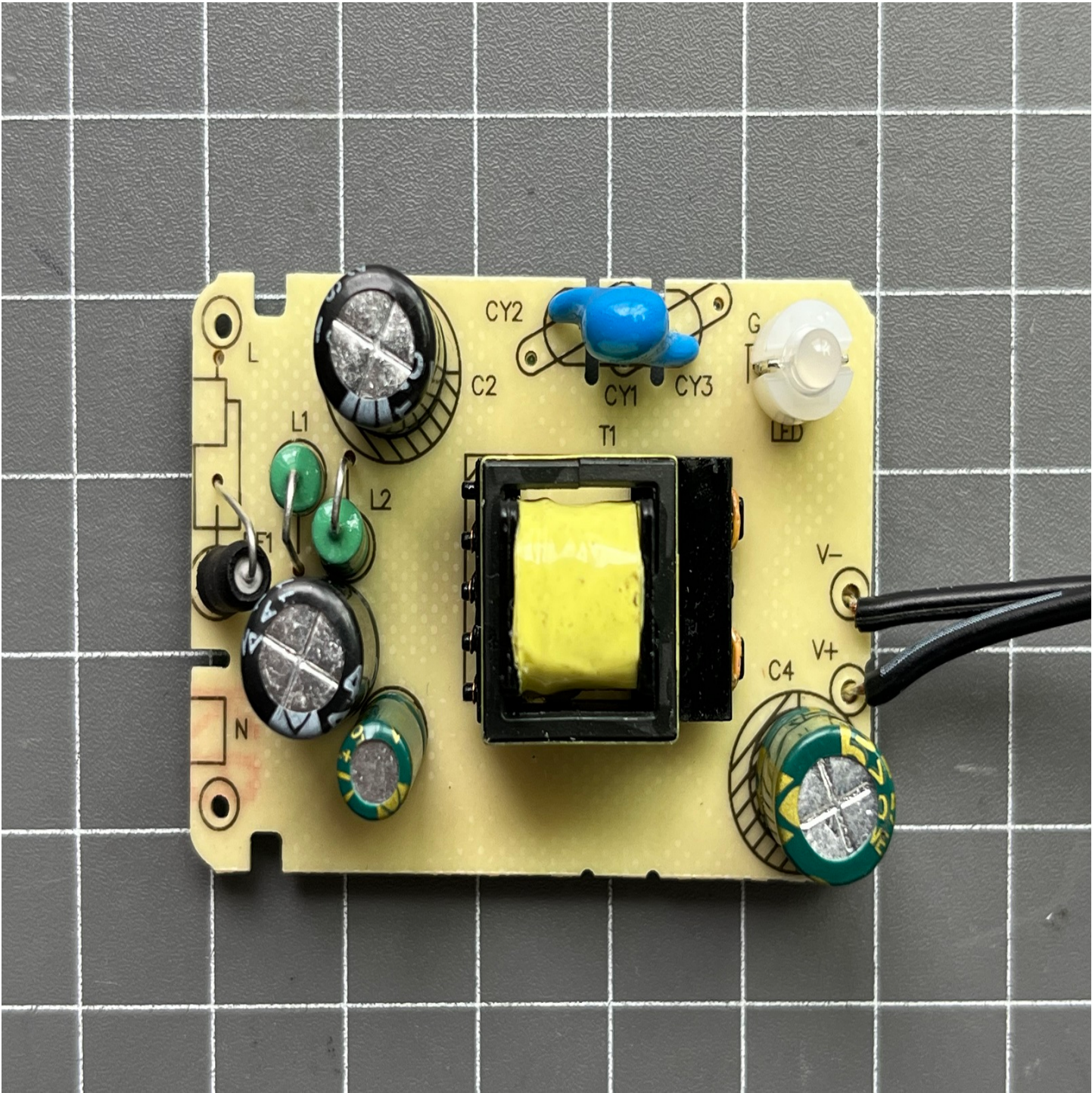


Figure-3 Page-1

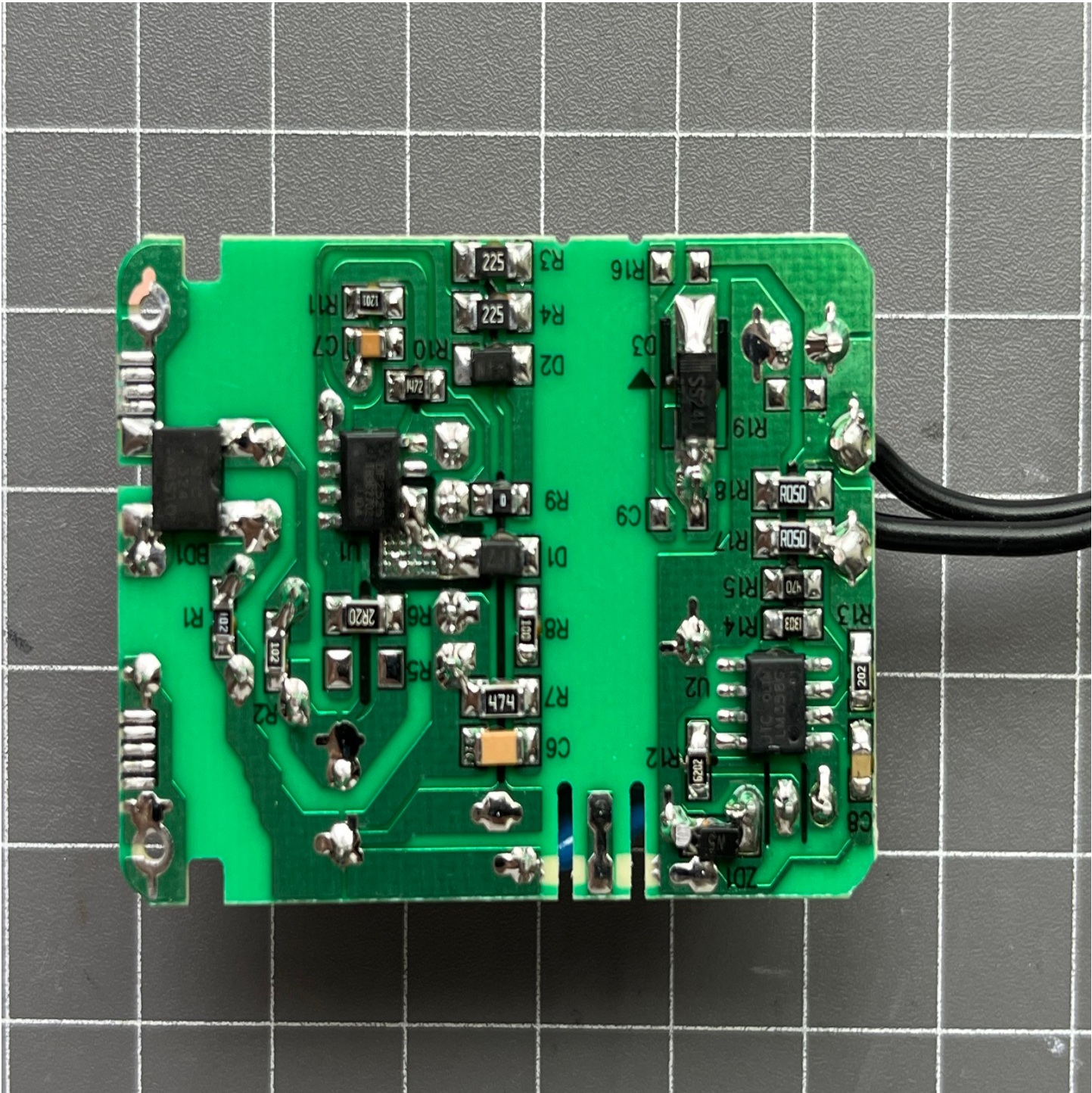
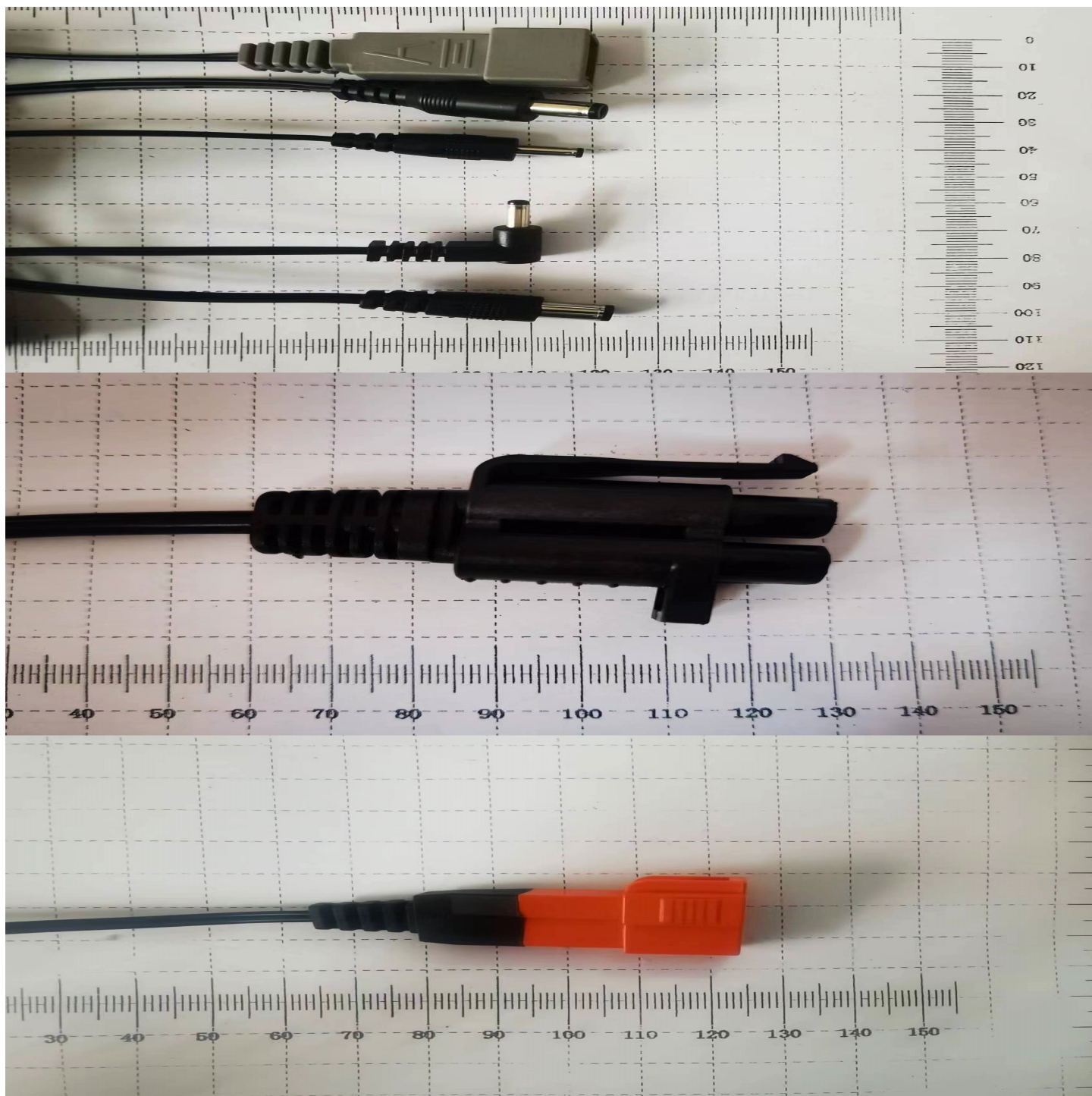
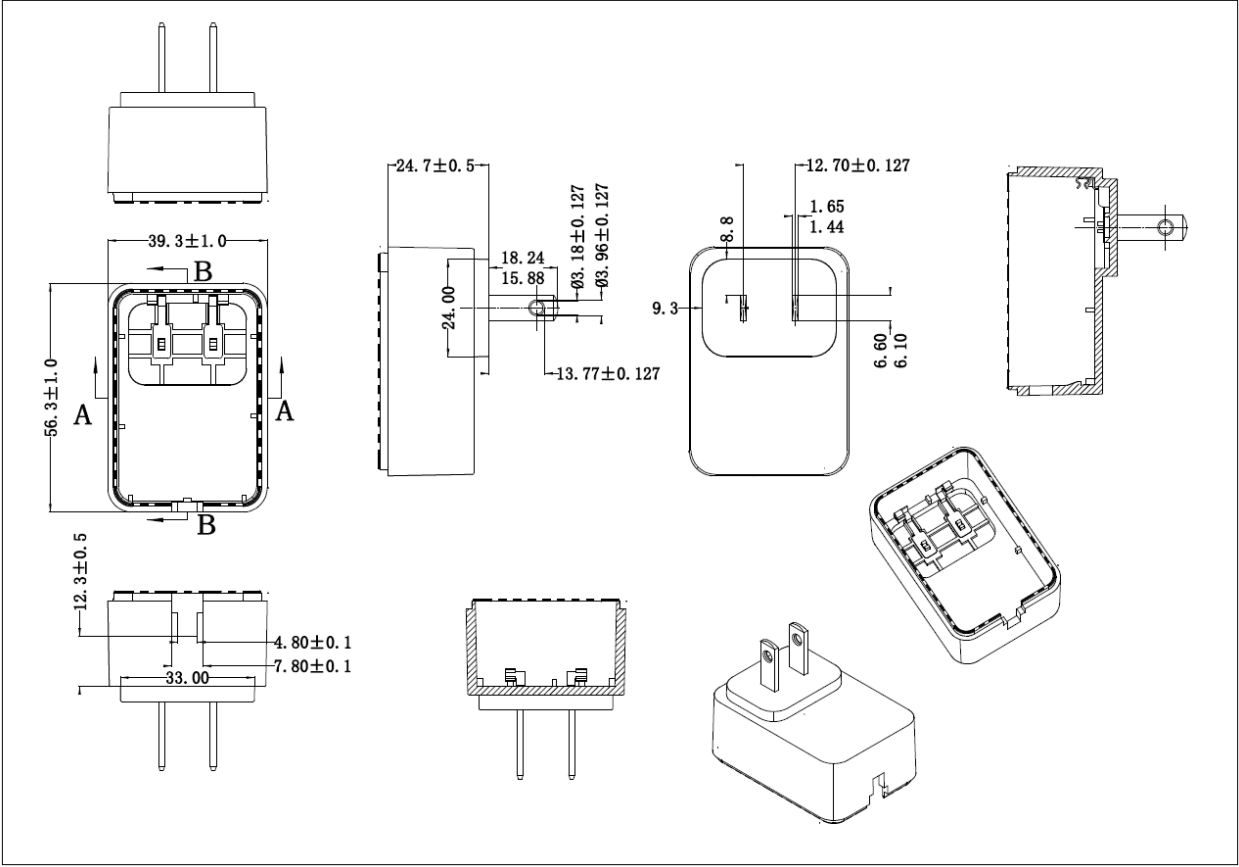


Figure-4 Page-1

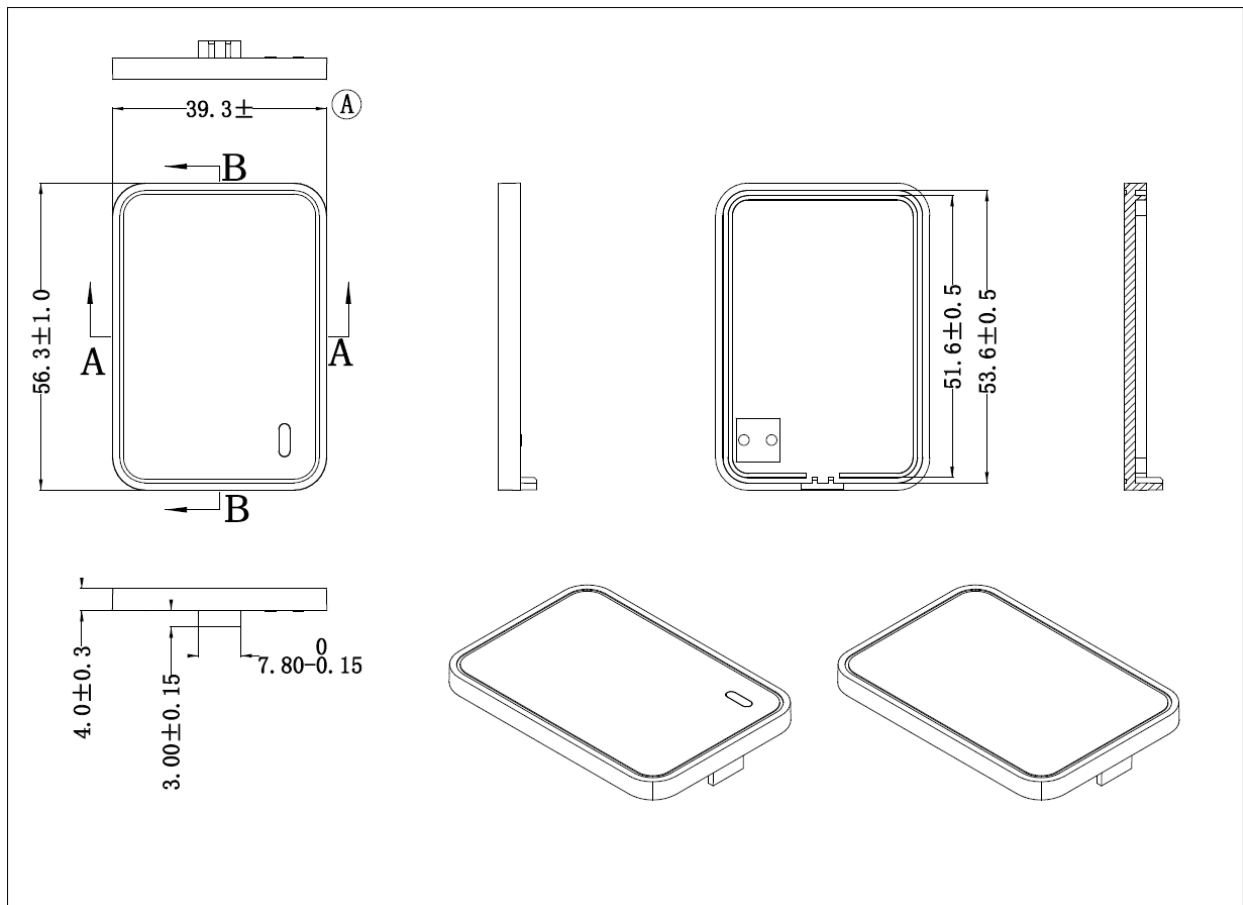


The following Page(s) are related to Illustration-1. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

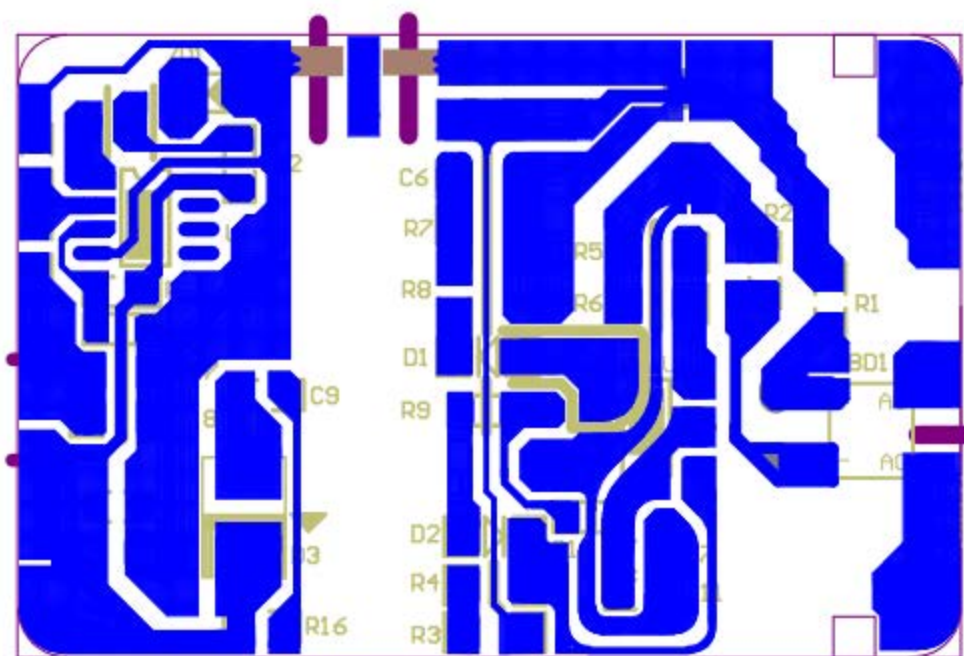
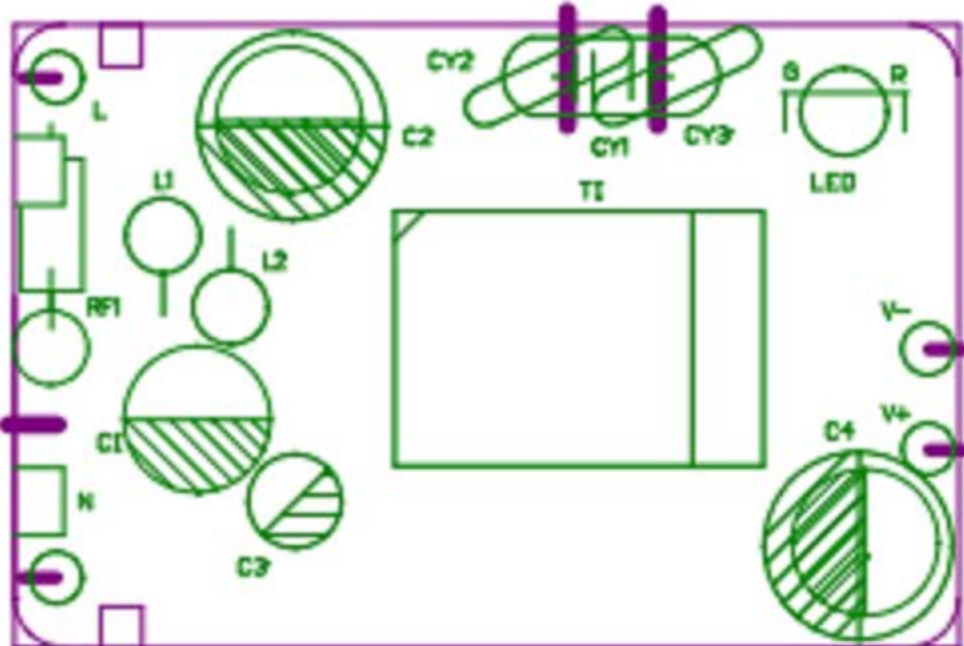
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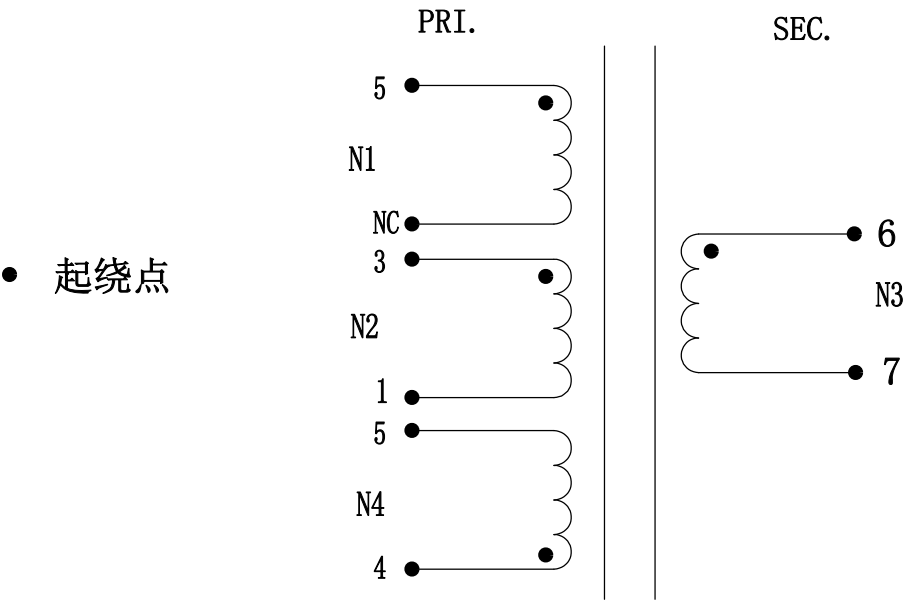


The following Page(s) are related to Illustration-2. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

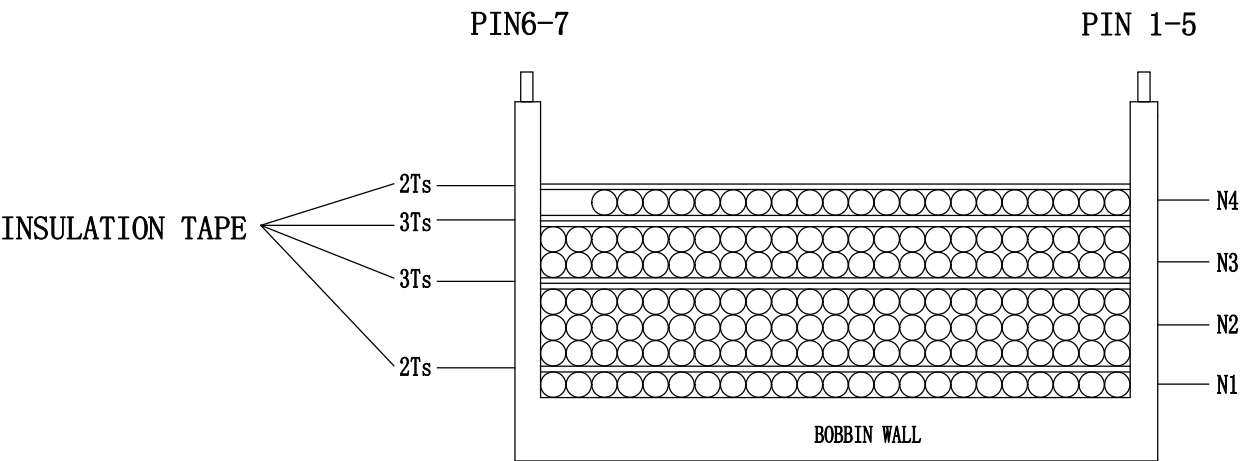


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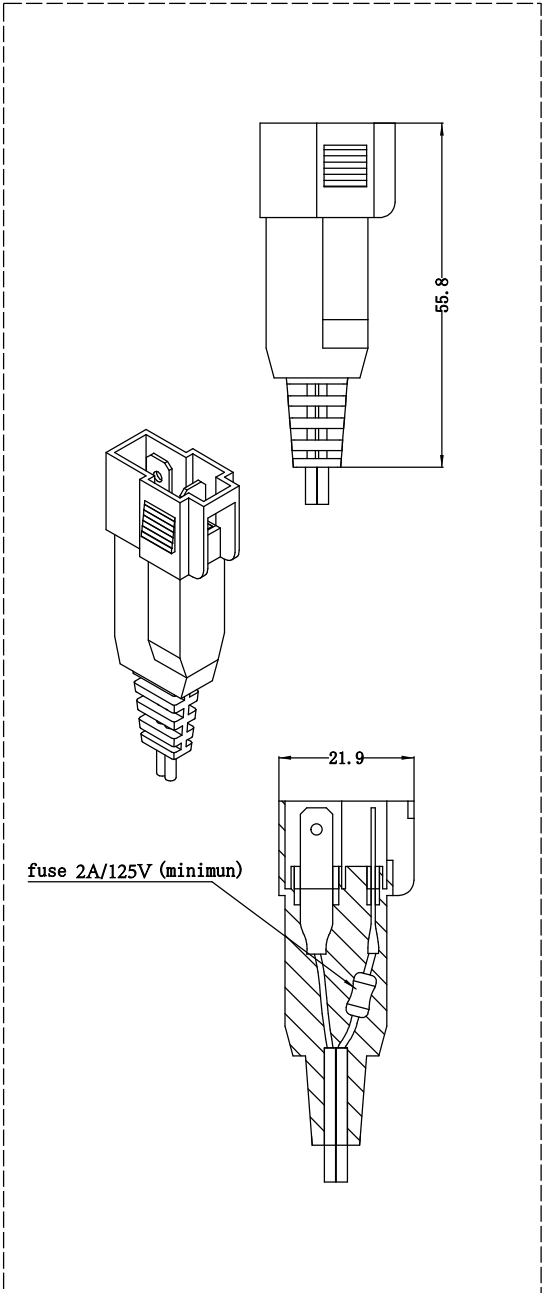
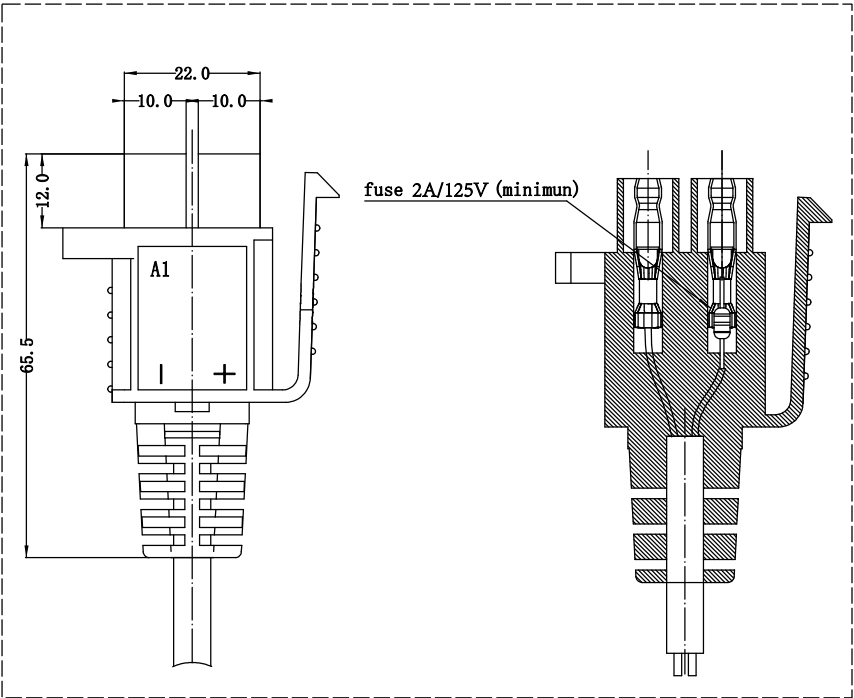
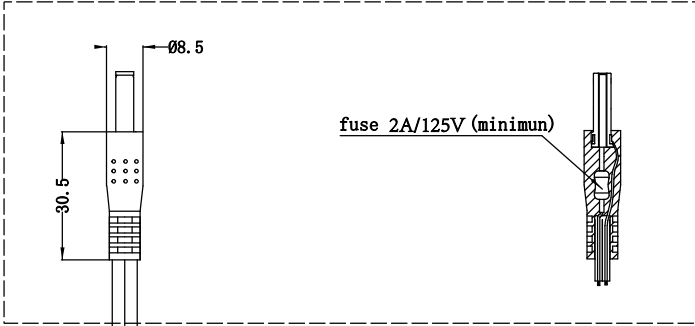
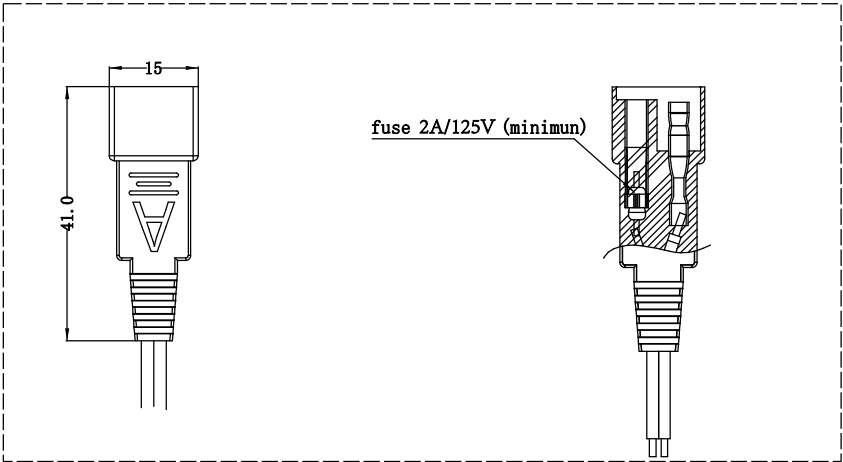
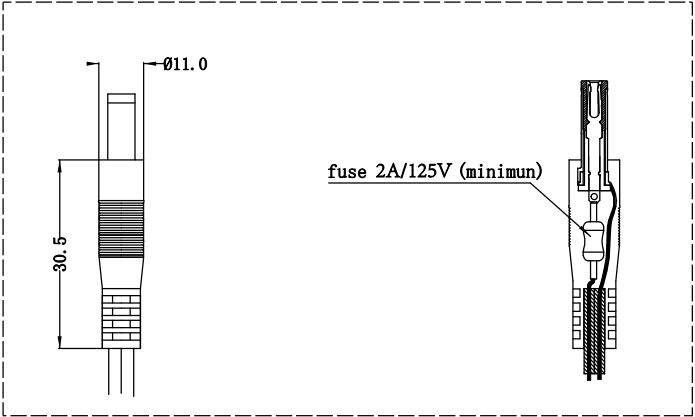
1. WINDING ORDER(绕线顺序):

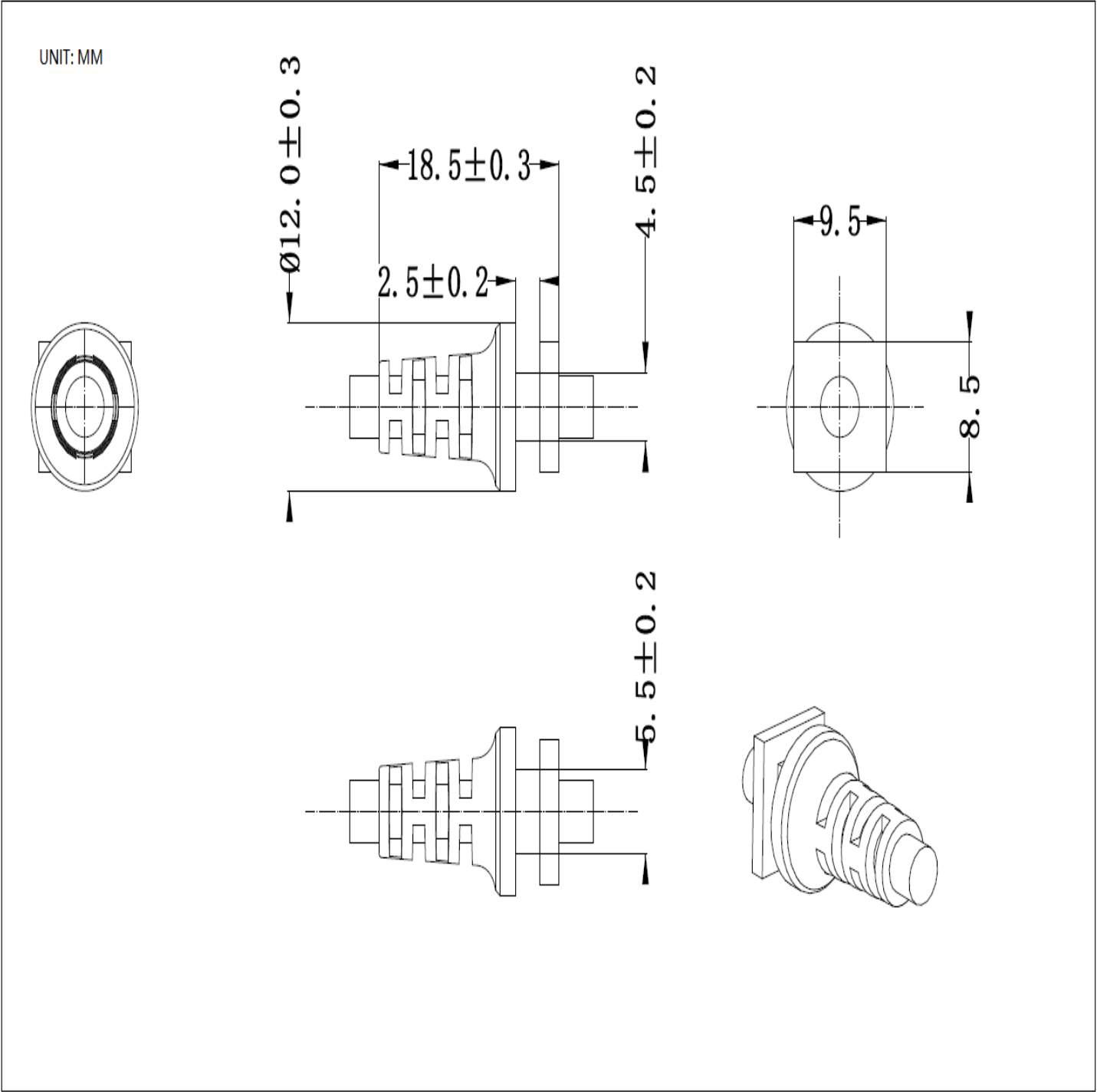


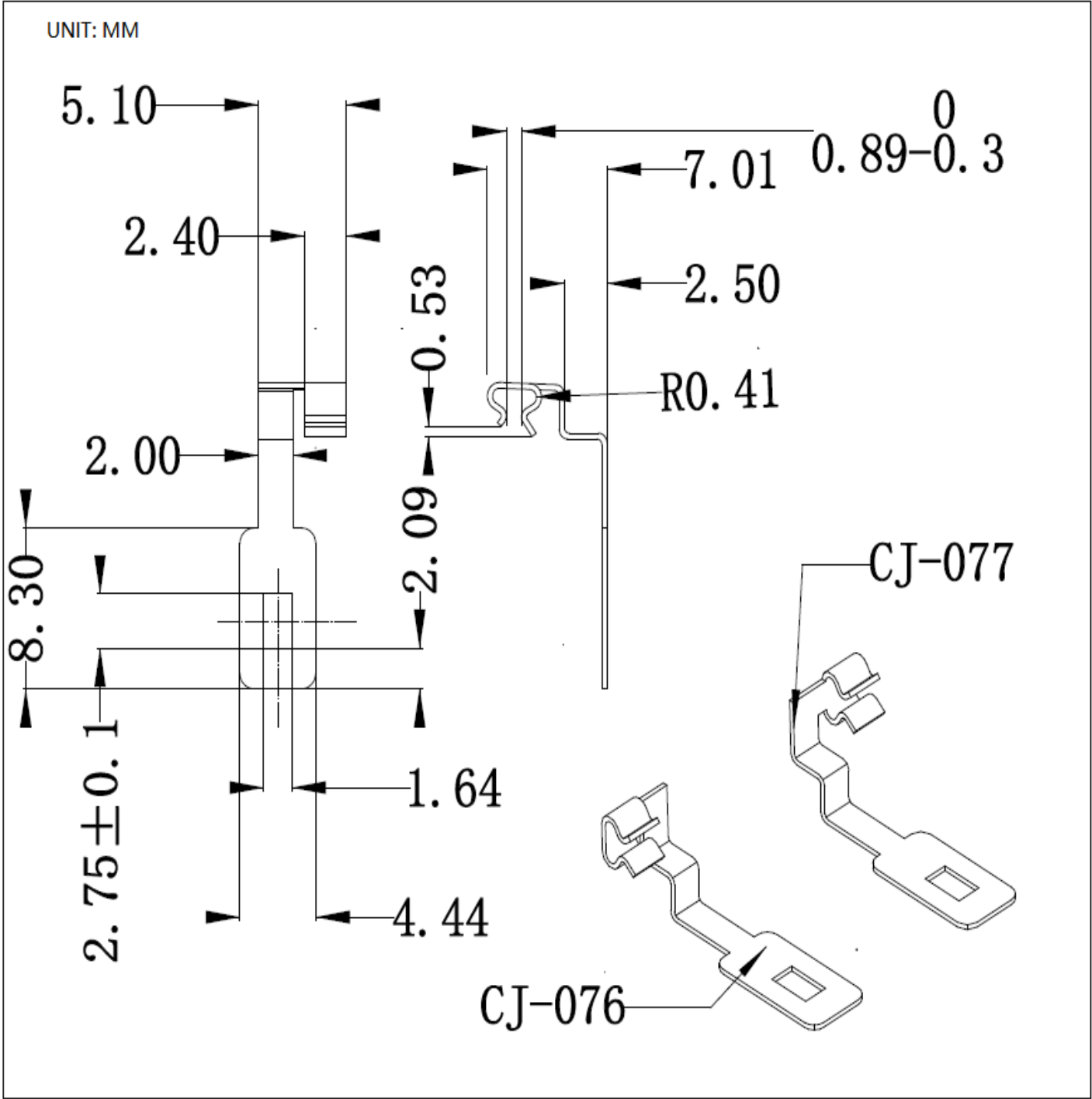
2. WINDING CONSTRUCTION(绕线结构示意图):



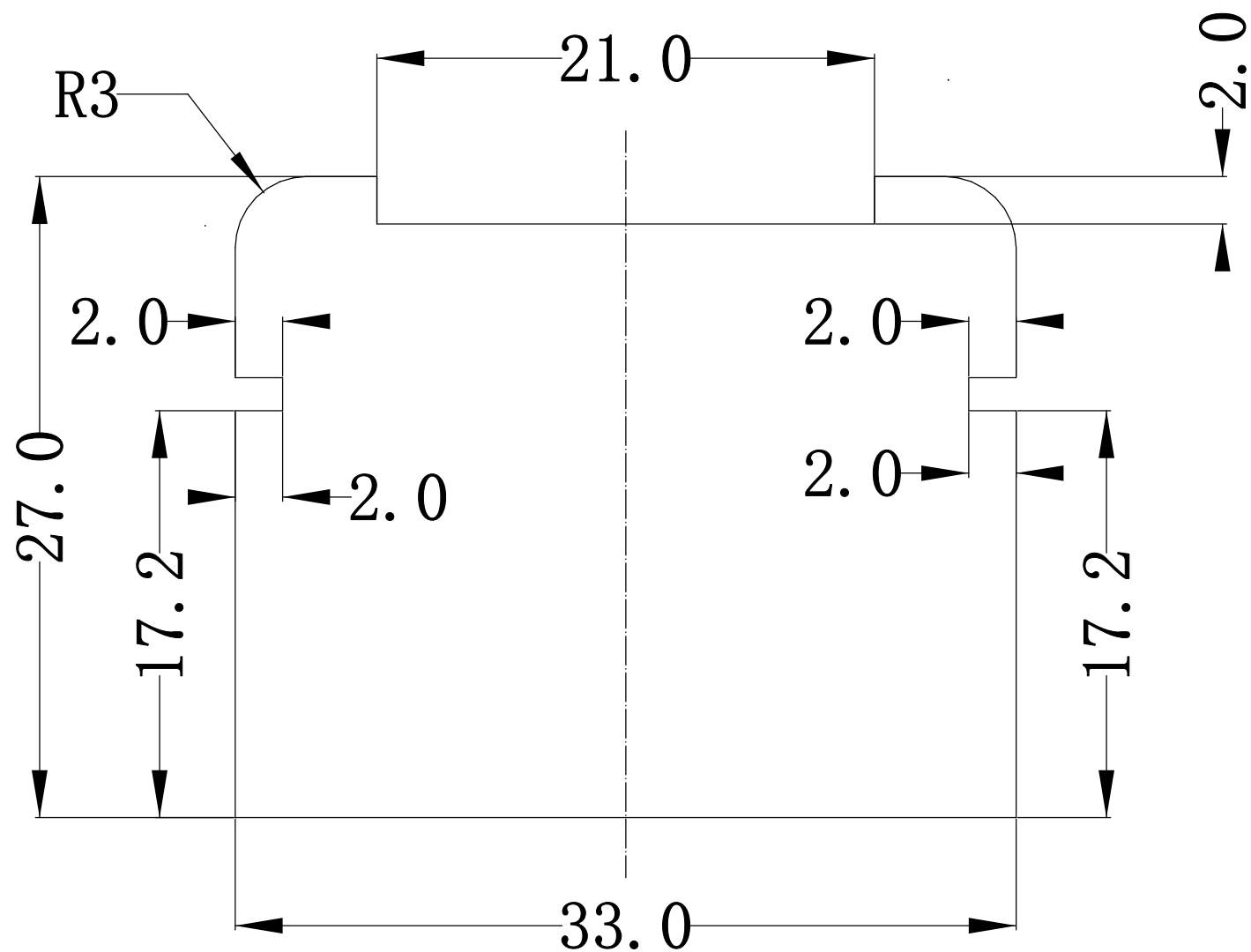
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The following Page(s) are related to Illustration-7. The next supplement, if applicable, will be identified with a new Supplement Page Heading.



厚度: 0.3mm

UNIT: mm

The following Page(s) are related to Illustration-8. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

$I_{cc(out)}$: Output current
 N_p : Pri. Winding turns
 N_s : Sec. Winding turns
 T_{dem} : Sec. demagnetization time
 T_{sw} : Conversion cycle time
 K : 0.2-0.5

$$I_{cc(out)} = (K/2R) * (N_p/N_s) * (T_{dem}/T_{sw})$$

TEST RECORD NO. 1

SAMPLES:

Samples of the Class 2 Battery charger, Models JT-DC150V0500-E, JT-DC120V0500-E, JT-DC080V0800-E, JT-DC060V0800-E, JT-DC080V0500-E, JT-DC060V0500-E, JT-DC075V0500-E and Class 2 Power Supply, Models JT-DC150V0500-E1, JT-DC120V0500-E1, JT-DC080V0800-E1, JT-DC060V0800-E1, JT-DC080V0500-E1, JT-DC060V0500-E1, JT-DC075V0500-E1 constructed as described herein, were submitted by the manufacturer for examination and test.

GENERAL:

Test results relate only to the items tested.

Tests performed on Models JT-DC150V0500-E and JT-DC080V0800-E were considered to represent all other models due to the similar construction except for output connector, components ratings and output ratings.

The following tests were conducted in accordance with UL 1310 and Canadian Standard, CAN/CSA C22.2 No. 223 with acceptable results. Clause and paragraph reference conventions consist of UL 1310 reference followed by (C22.2 No. 223) reference.

Working Voltage Measurements	24.2
(Electrical Spacings, CSA C22.2 No. 223)	(4.11)
Leakage Current Test	26(6.6)
Dielectric Voltage Withstand Test After Leakage Current Test	27
Leakage Current Test After Humidity Exposure	27
Dielectric Voltage Withstand Test After Humidity Exposure	27
Maximum Output Voltage Test	28
(Open-Circuit Secondary Voltage, CSA C22.2 No.223)	(6.3.1)
Normal Input Test	50.2
(Rated Input, CSA C22.2 No.223)	(6.3.2)
Maximum Input Test	29
(Rated Input, CSA C22.2 No. 223)	(6.3.2)
Output Current And Power Test (5 S)	30
(Maximum Output Current And Power, CSA C22.2 No.223)	(6.3.4)

Table CONT'D

Dielectric Voltage Withstand Test After Output Current And Power Test	34
(Dielectric Strength, CSA C22.2 No. 223)	(6.5)
Full-Load Output Current Test	32
Normal Temperature Test - General	33
(Temperature (Normal), CSA C22.2 No. 223)	(6.4)
Normal Temperature Test - Specific Battery:	33
(Temperature (Normal), CSA C22.2 No. 223)	(6.4)
Dielectric Voltage Withstand Test	34
(Dielectric Strength, CSA C22.2 No.223)	(6.5)
Output Loading Test - Abnormal	39.2, 39.3
(Secondary Circuit Protection, CSA C22.2 No. 223)	(6.7)
Dielectric Voltage Withstand Test After Output Loading Test	34
(Dielectric Strength, CSA C22.2 No. 223)	(6.5)
Transformer Burnout Test (Switch Mode Designs) - Abnormal	39.4
Dielectric Voltage Withstand Test After Transformer Burnout Test:	34
Component Breakdown Test - Abnormal	39.7
(Abnormal, CSA C22.2 No. 223)	(6.8)
Dielectric Voltage Withstand Test After Component Breakdown Test	34
(Dielectric Strength, CSA C22.2 No. 223)	(6.5)
Printed Wiring Board Abnormal Operation Test - Abnormal	39.8
(Abnormal, CSA C22.2 No. 223)	(6.8)
Dielectric Voltage Withstand Test After Printed Wiring Board Abnormal Operation Test	34
(Dielectric Strength, CSA C22.2 No. 223)	(6.5)

Table CONT'D

Transformer Insulating Materials Test	40
(Insulating Material, CSA C22.2 No. 223)	(6.14)
Strain Relief Test	41
(Strain Relief And Blade Retention, CSA C22.2 No. 223)	(6.10)
Push-Back Relief Test	42
(Strain Relief And Blade Retention, CSA C22.2 No. 223)	(4.13.2)
Blade Secureness Test: (Direct Plug-In Unit)	43
(Strain Relief And Blade Retention, CSA C22.2 No. 223)	(6.10)
Input Contact Security Test: (Direct Plug-In Unit)	44
(Strain Relief And Blade Retention, CSA C22.2 No. 223)	(6.10)
Impact Test	46.2
(Drop And Impact Test, CSA C22.2 No. 223)	(6.9)
Dielectric Voltage Withstand Test After Impact Test	34
(Dielectric Strength, CSA C22.2 No. 223)	(6.5)
Rod Pressure Test (CSA C22.2 No. 223, Compression (Rod))	46.4
	(6.15)
Dielectric Voltage Withstand Test After Rod Pressure Test	34
(Dielectric Strength, CSA C22.2 No. 223)	(6.5)
Resistance To Crushing Test	46.5
Mold Stress Relief Distortion Test	Table 25.1
(Deformation (Non-Metallic Enclosure))	(6.16)
Strain Relief Test After Mold Stress Relief Distortion Test	Table 25.1
(Strain Relief Test After Deformation, CSA C22.2 No. 223)	(6.16)
Weight And Moment Determination: (Direct Plug-In Unit)	7.11
(Construction - General, CSA C22.2 No.223)	(4.2.5)
Backfeed Protection Test (Output Connector) - Abnormal	39.9
(Abnormal, CSA C22.2 No. 223)	(6.8.5)

The test methods and results of the above tests have been reviewed and found in accordance with the requirements in the Standards mentioned above.

TEST RECORD SUMMARY:

The results of this investigation, including construction review and testing, indicate that the product evaluated complies with the applicable requirements in the standards noted below and, therefore, such product is judged eligible to bear UL's Mark as described on the Conclusion Page of this Report. Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Standard	Title	Edition or Publication Date	Latest Revision Date
UL 1310	Class 2 Power Units	7th Edition	2022-06-09
CAN/CSA C22.2 No. 223	Power Supplies with Extra-low Voltage Class 2 Outputs	3rd Edition	2017-06-01

CONCLUSION

Sample of the products covered by this Report has been found to comply with the requirements covering the category and the products are found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify UL Listing Mark or that the product(s) described are covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the Certification Mark of UL on such products which comply with UL's Follow-Up Service Procedure and any other applicable requirements of UL LLC. The Listing Mark of UL on the product, or the UL symbol on the product and the Listing Mark of UL on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Listing and Follow-Up Service.

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