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REPORT

on

Power Supplies for use with Audio/Video, Information and Communication
Technology Equipment

GLOBTEK (HONG KONG) LTD
KWUN TONG
KOWLOON HONG KONG

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UL TEST REPORT AND PROCEDURE	
Standard:	UL 62368-1, 2nd Edition, 2014-12-01 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements) CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements)
Certification Type:	Listing
CCN:	QQJQ, QQJQ7 Power Supplies for use in Audio/Video, Information and Communication Technology Equipment)
Complementary Certification CCN	N/A
Product:	ICT/ITE POWER SUPPLY
Model:	GT-46180-WWVV-X.XX***** series(Replaceable plug),GT-46182-WWVV-X.X-W2 series(Fixed plug) WW is the standard output wattage, with a maximum value of "18", VV is the standard rated output voltage designation, with a maximum value of "24"; which can be 05, 09, 12, 15, 18, 24. -X.XX denote the output voltage differentiator, subtracting X.XX volts from standard output voltage VV in 0.01V increments, the actual output voltage range is 5-24Vdc, blank is to indicate the no voltage different. Each * = 0-9 or A-Z or ()[] or blank for marketing purposes.
Rating:	I/P: 100-240V~, 50-60Hz or 50/60Hz, 0.6A O/P: See Model description of general product information for details
Applicant Name and Address:	GLOBTEK (HONG KONG) LTD UNIT 1402, BENSON TOWER 74 HUNG TO RD KWUN TONG KOWLOON HONG KONG

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

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by:

GT model name	Output voltage	Output current	Max.W	HS2	Transformer
GT-46180-1605	5V	3.0A	16W	Provide	XF00914
GT-46180-1809	9V	2.0A	18W	Provide	XF00915
GT-46180-1812	12V	1.5A	18W	Provide	XF00915
GT-46180-1815	15V	1.2A	18W	N/A	XF00915
GT-46180-1818	18V	1.0A	18W	N/A	XF00934
GT-46180-1824-4.0	20V	0.9A	18W	N/A	XF00934
GT-46180-1824	24V	0.75A	18W	N/A	XF00934
GT-46180-1305	5V	2.6A	13W	Provide	XF00914
GT-46180-1509	9V	1.66A	15W	Provide	XF00915
GT-46180-1512	12V	1.25A	15W	Provide	XF00915
GT-46180-1515	15V	1.0A	15W	N/A	XF00915
GT-46180-1518	18V	0.83A	15W	N/A	XF00934
GT-46180-1524-4.0	20V	0.75A	15W	N/A	XF00934
GT-46180-1524	24V	0.625A	15W	N/A	XF00934
GT-46182-1605-W2	5V	3.2A	16W	Provide	XF00914
GT-46182-1809-W2	9V	2.0A	18W	Provide	XF00915
GT-46182-1812-W2	12V	1.5A	18W	Provide	XF00915
GT-46182-1815-W2	15V	1.2A	18W	N/A	XF00915
GT-46182-1818-W2	18V	1.0A	18W	N/A	XF00934
GT-46182-1824-4.0-W2	20V	0.9A	18W	N/A	XF00934
GT-46182-1824-W2	24V	0.75A	18W	N/A	XF00934
GT-46182-1305-W2	5V	2.6A	13W	Provide	XF00914
GT-46182-1509-W2	9V	1.66A	15W	Provide	XF00915
GT-46182-1512-W2	12V	1.25A	15W	Provide	XF00915
GT-46182-1515-W2	15V	1.0A	15W	N/A	XF00915
GT-46182-1518-W2	18V	0.83A	15W	N/A	XF00934
GT-46182-1524-4.0-W2	20V	0.75A	15W	N/A	XF00934
GT-46182-1524-W2	24V	0.625A	15W	N/A	XF00934

Test Item Particulars (NOT FOR FIELD REPRESENTATIVE'S USE)

Classification of installation and use by . : ☒ Ordinary person ☐ Instructed person
☐ Skilled person

Supply Connection..... : ☒ pluggable equipment ☒ type A ☐
type B
☒ direct plug-in
☐ permanent connection
☐ detachable power supply cord
☐ non-detachable power supply cord
☐ not directly connected to the mains

Equipment mobility..... : ☐ movable ☐ hand-held ☒ transportable
☐ stationary ☐ for building-in ☒
direct plug-in
☐ rack-mounting ☐ wall-mounted

Over voltage category (OVC) : ☐ OVC I ☒ OVC II ☐ OVC III ☐ OVC IV
☐ other: _____

Fundamental Frequency..... : ☐ 50/60 Hz ☐ 50 Hz ☐ 60 Hz ☒ other
50-60 Hz ☐ N/A

Class of equipment : ☐ Class I ☒ Class II ☐ Class III
☐ Not classified
☐ Class II with functional earthing

Access location : ☐ restricted access location ☒ N/A

Pollution degree (PD) : ☐ PD 1 ☒ PD 2 ☐ PD 3

IP protection class : ☒ IP X0 ☐ IP ____

Tested for IT power systems : ☐ Yes ☒ No

IT testing, phase-phase voltage (V) : ☐ ____ ☒ N/A

Altitude during operation (m) : ☒ Up to 2,000 ☒ Up to 5,000

Altitude of test laboratory (m) : ☒ Less than 2,000 ☐ Approximately ____

Mass of equipment (kg) : 0.15 max.

Technical Consideration (NOT FOR FIELD REPRESENTATIVE'S USE)

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 40 degree C
- The means of connection to the mains supply is: Pluggable A (direct plug-in type)
- The product is intended for use on the following power systems: TN
- Considered current rating of protective device as part of the building installation (A) : 20
- Mains supply tolerance (%) or absolute mains supply values : +10%, -10%
- The equipment disconnect device is considered to be: Plug (direct plug-in type)
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual

Engineering Conditions of Acceptability (NOT FOR FIELD REPRESENTATIVE'S USE)


N/A

Additional Information

N/A

Additional Standard

The product fulfils the requirements of: N/A

Markings, instructions and instructional safeguards						
Clause Title		Marking or Instruction Details				
Equipment identification marking - Manufacturer identification		Listee's or Recognized company's name, Trade Name, Trademark or File Number.				
Equipment identification marking - model identification		Model Number				
Equipment rating marking -ratings		Input Ratings (voltage, frequency, current) Output Ratings (voltage, dc, current)				
Fuses - Rating		Rated current and voltage and type located on or adjacent to fuse or fuseholder.				
Power rating - Class II symbol		Symbol for Class II construction <div></div> (60417-2-IEC-5172)				
Special Instructions to UL Representative For transformer test - When the tests are conducted at other location, inspect test record and specification sheet provided by the component manufacturer. Verify the specification sheet indicates 100% routine test specified in Production-Line Testing Requirements be conducted at the component manufacturer.						
Production-Line Testing Requirements <u>Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.</u>						
Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
All models	T1	N/A	Primary to Secondary	2829	4000	1
<u>Earthing Continuity Test Exemptions - This test is not required for the following models:</u>						
All models						
<u>Electric Strength Test Exemptions - This test is not required for the following models:</u> --						
<u>Electric Strength Test Component Exemptions - The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test:</u> N/A						
<u>Sample and Test Specifics for Follow-Up Tests at UL</u>						
Model	Component	Material	Test	Sample(s)	Test Specifics	
N/A	--	--	--	--	--	

4.1.2	TABLE: list of critical components					Pass
Object/part or Description	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity	Supplement ID
01a. Enclosure and plug holder material (Alternate)	SABIC INNOVATIVE PLASTICS US L L C	915R(GG)	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, 120 degree C min. Minimum 2.0 mm thickness. See ILL-1 to ILL-3 for dimensions	QMFZ2	UL	
01b. Enclosure and plug holder material (Alternate)	SABIC JAPAN L L C	945 (GG)	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, 120 degree C min. Minimum 2.0 mm thickness. See ILL-1 to ILL-3 for dimensions	QMFZ2	UL	
01c. Enclosure and plug holder material (Alternate)	LG CHEM (GUANGZHOU) ENGINEERING PLASTICS CO LTD	LUPOY EF-1006F(m)	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, 115 degree C min. Minimum 2.0 mm thickness. See ILL-1 to ILL-3 for dimensions	QMFZ2	UL	
01d. Enclosure and plug holder material (Alternate)	COVESTRO DEUTSCHLAND AG [PC RESINS]	FR6005 + (z)	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, 105 degree C min. Minimum 2.0 mm thickness. See ILL-1 to ILL-3 for dimensions	QMFZ2	UL	
01e. Enclosure and plug holder material (Alternate)	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	PC2330	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, 115 degree C min. Minimum 2.0 mm thickness. See ILL-1 to ILL-3 for dimensions	QMFZ2	UL	
02. Input Blades	Various	Various	Solid copper, non-grounding, non-polarized, NEMA 1-15P configuration, integrally	--	--	

			moulded on Bottom Enclosure. Spaced minimum 5.1 mm from perimeter edge of Enclosure.			
03. Label (optional)	Various	Various	Minimum 65 degree C. if maximum surface temperature not specified.	PGDQ2, PGJI2	UL	
04. Output Cable	Various	Various	Rated Minimum 30 V, Minimum 80 degree C, Maximum 3.05 m long, marked VW-1 or FT-1. Terminates with a polarized connector outside enclosure.	AVLV2, ZJCZ	UL	
05. Output Cable Strain Relief	Various	Various	V-1 min. PVC bushing integrally molded on output cord. See ILL-6 for dimensions details.	--	--	
06. PWB	Various	Various	V-0 or better, minimum 130 degree C.	ZPMV2	--	
07. Fuse (FS1)	Various	Various	T1.6A, 250Vac	JDYX	UL, C-UL	
07a. Fuse (FS1) (Alternate)	CONQUER ELECTRONICS CO LTD	MST	T1.6A, 250Vac	JDYX2	UL, C-UL	
07b. Fuse (FS1) (Alternate)	EVER ISLAND ELECTRIC CO LTD & WALTER ELECTRIC	2010	T1.6A, 250Vac	JDYX2	UL, C-UL	
07c. Fuse (FS1) (Alternate)	HOLLYLAND CO LTD	5ET	T1.6A, 250Vac	JDYX2	UL, C-UL	
07d. Fuse (FS1) (Alternate)	BEL FUSE INC	RST	T1.6A, 250Vac	JDYX2	UL, C-UL	
07e. Fuse (FS1) (Alternate)	LITTELFUSE WICKMANN WERKE	392	T1.6A, 250Vac	JDYX2	UL, C-UL	
07f. Fuse (FS1) (Alternate)	Dongguan Better Electronics Technology Co., Ltd.	932	T1.6A, 250Vac	JDYX2	UL, C-UL	
08. Varistor (MV1) (optional)	CENTRA SCIENCE CORP	CNR 14V511K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL	

08a. Varistor (MV1) (optional) (Alternate)	CENTRA SCIENCE CORP	CNR 10V471K, CNR 14D471K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL	
08b. Varistor (MV1) (optional) (Alternate)	CENTRA SCIENCE CORP	CNR 14D511K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL	
08c. Varistor (MV1) (optional) (Alternate)	JOYIN CO LTD	10N511K, 10N471K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL	
08d. Varistor (MV1) (optional) (Alternate)	JOYIN CO LTD	14N471K, 14N511K, 14S511K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL	
08e. Varistor (MV1) (optional) (Alternate)	THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR 10471K, TVR 10511K, TVR 10471-V	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL	
08f. Varistor (MV1) (optional) (Alternate)	THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR 14471K, TVR 14511K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL	
08g. Varistor (MV1) (optional) (Alternate)	CERAMATE TECHNICAL CO LTD	GNR 14D471K, GNR 14D511K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL	
08h. Varistor (MV1) (optional) (Alternate)	CERAMATE TECHNICAL CO LTD	GNR10D471K	Rated minimum 300 Vac, minimum 385 Vdc.			
08i. Varistor (MV1) (optional) (Alternate)	SUCCESS ELECTRONICS CO LTD	SVR10D471K, SVR10D511K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL	
08j. Varistor (MV1) (optional) (Alternate)	SUCCESS ELECTRONICS CO LTD	SVR14D471K, SVR14D511K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL	
09. Bridge Diode (DB1)	--	--	Rated minimum 1A, minimum 800 V.	--	--	
10. Storage Capacitor (C1)	--	--	Rated 400 V, max. 33uF, min. 105 degree C, provided with integral pressure relief	--	--	
11. X-Capacitor (CX1)	Cheng Tung Industrial Co Ltd	CTX	Rated max 0.033 uF, min 250 V, X1 or X2 type, 100 degree C. (Compliance with IEC 60384-14)	FOWX2	UL	

11a. X-Capacitor (CX1) (Alternate)	Tenta Electric Industrial Co Ltd	MEX	Rated max 0.033 uF, min 250 V, X1 or X2 type, 100 degree C. (Compliance with IEC 60384-14)	FOWX2	UL	
11b. X-Capacitor (CX1) (Alternate)	Ultra Tech Xiphi Enterprise Co Ltd	HQX	Rated max 0.033 uF, min 250 V, X1 or X2 type, 100 degree C. (Compliance with IEC 60384-14)	FOWX2	UL	
11c. X-Capacitor (CX1) (Alternate)	CARLI ELECTRONICS CO LTD	MPX	Rated max 0.033 uF, min 250 V, X1 or X2 type, 100 degree C. (Compliance with IEC 60384-14)	FOWX2	UL	
11d. X-Capacitor (CX1) (Alternate)	JOEY ELECTRONICS (DONG GUAN) CO LTD	MPX	Rated max 0.033 uF, min 250 V, X1 or X2 type, 105 degree C. (Compliance with IEC 60384-14)	FOWX2	UL	
11e. X-Capacitor (CX1) (Alternate)	XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	MKP/MPX	Rated max 0.033 uF, min 250 V, X1 or X2 type, 110 degree C. (Compliance with IEC 60384-14)	FOWX2	UL	
12. Transformer (T1) (For Output 5Vdc)	ENG Electric Co Ltd	XF00914	Class B, See ILL-7 for construction details.	--	--	
12. Transformer (T1) (For output 9-17.9	ENG Electric Co Ltd	XF00915	Class B, See ILL-8 for construction details.	--	--	
12. Transformer (T1) (For output 18-24Vdc)	ENG Electric Co Ltd	XF00934	Class B, See ILL-9 for construction details.	--	--	
12-01. Insulation system for Transformer (T1)	ENG Electric Co., Ltd.	ENG130-1	Insulation system Class B (130 degree C, adapted form GREAT LEOFLON INDUSTRIAL CO LTD, Type GH-130)	OBJY2	UL	
12-02. Core	--	--	EE type, Ferrite, dimension 13.5 mm by 12.5mm by 6.0mm	--	--	
12-03. Coil	--	--	Min. 130 degree C	OBMW2	UL	
12-04. Bobbin	Chang Chun Plastics Co., Ltd.	T375J	V-0, 150 degree C, Phenolic, thickness 0.8mm minimum	QMFZ2	UL	
12-04a. Bobbin (Alternate)	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150 degree C, Phenolic, thickness 0.71mm minimum	QMFZ2	UL	

12-05. Tubing/Sleeving	Great Holding Industrial Co. Ltd.	TFL, TFS, TFT	Rated 200 degree C, VW-1, 600V max.	YDPU2	UL	
12-06. Triple Insulated Wire	Great Leoflon Industrial Co. Ltd.	TRW(B)	130 degree C. (Used in secondary winding)	OBJT2	UL	
12-07. Varnish	John C. Dolph Co.	BC-346A	Rated minimum 200 degree C.	OBOR2	UL	
12-07a. Varnish (Alternate)	Elantas Electrical Insulation Elantas Pdg Inc	V1630FS	Rated minimum 130 degree C.	OBOR2	UL	
12-08. Insulation Tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-(#), 1350T-1	130 degree C.	OANZ2	UL	
12-08. Insulation Tape (alternate)	BONDTEC PACIFIC CO LTD	370S	130 degree C.	OANZ2	UL	
13. Internal Glue Materials	--	--	Rated V-2 minimum.	QMFZ2	UL	
14. Internal Plastic Part Materials	--	--	Rated minimum V-2.	QMFZ2	UL	
15. Current sense resistor (RS12, RS13, RS14) (for output 9-24Vdc)	--	--	3.3 ohm, 1/4W.	--	--	
15. Current sense resistor (RS12, RS13, RS14) (for output 18Vdc)	--	--	3.6 ohm, 1/4W.	--	--	
15. Current sense resistor (RS13, RS14) (for output 5Vdc)	--	--	3.3 ohm, 1/4W.	--	--	
15. Current sense resistor (RS13, RS14) (for output 20Vdc)	--	--	3.6 ohm, 1/4W.	--	--	
15. Current sense resistor (RS12) (for output 5Vdc and 20Vdc)	--	--	4.7 ohm, 1/4W.	--	--	
16. Line filter (LF1) (Optional)	Various	NF00085	Open type construction. Rated 105 degree C.	--	--	
16a Core	Various	Various	Ferrite, overall measured	--	--	

			overall 15.67 mm by 10.4mm by 2.8mm			
16b Coil	Various	Various	Rated minimum 105 degree C.	OBMW2	UL	
17. Bridge Capacitors (CY1, CY2) (optional)	Success Electronics Co Ltd	SE, SB, SF	Max. 2200pF (If CY2 not provided, CY1 use the max. 1000pF), min. 250 Vac, 125 degree C, Y1 type. (Compliance with IEC 60384- 14)	FOWX2	UL	
17a. Bridge Capacitors (CY1, CY2) (optional) (Alternate)	TDK CORPORATION	CD	Max. 2200pF (If CY2 not provided, CY1 use the max. 1000pF), min. 250 Vac, 125 degree C, Y1 type. (Compliance with IEC 60384- 14)	FOWX2	UL	
17b. Bridge Capacitors (CY1, CY2) (optional) (Alternate)	Walsin Technology Corp	AH	Max. 2200pF (If CY2 not provided, CY1 use the max. 1000pF), min. 250 Vac, 125 degree C, Y1 type. (Compliance with IEC 60384- 14)	FOWX2	UL	
17c. Bridge Capacitors (CY1, CY2) (optional) (Alternate)	Haohua Electronic Co	CT 7	Max. 2200pF (If CY2 not provided, CY1 use the max. 1000pF), min. 250 Vac, 125 degree C, Y1 type. (Compliance with IEC 60384- 14)	FOWX2	UL	
17e. Bridge Capacitors (CY1, CY2) (optional) (Alternate)	XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	YOB YOF YOE	Max. 2200pF (If CY2 not provided, CY1 use the max. 1000pF), min. 250 Vac, 125 degree C, Y1 type. (Compliance with IEC 60384- 14)	FOWX2	UL	
17e. Bridge Capacitors (CY1, CY2) (optional) (Alternate)	JUHONG ELE CO	JB	Max. 2200pF (If CY2 not provided, CY1 use the max. 1000pF), min. 250 Vac, 125 degree C, Y1 type. (Compliance with IEC 60384- 14)	FOWX2	UL	

			14)			
17f. Bridge Capacitors (CY1, CY2) (optional) (Alternate)	MURATA MFG CO LTD	KX	Max. 2200pF (If CY2 not provided, CY1 use the max. 1000pF), min. 250 Vac, 125 degree C, Y1 type. (Compliance with IEC 60384-14)	FOWX2	UL	
18. Optical Isolator (U1)	Lite-On Technology Corp	LTV-817	Isolation: 5000 Vac, minimum 100 degree C.	FPQU2	UL	
18a. Optical Isolators (U1) (Alternate)	Everlight Electronics Co Ltd	EL817	Isolation: 5000 Vac, minimum 110 degree C.	FPQU2	UL	
18b. Optical Isolators (U1) (Alternate)	COSMO ELECTRONICS CORP	K1010	Isolation voltage minimum 5000 Vac, minimum 115 degree C.	FPQU2	UL	
18c. Optical Isolators (U1) (Alternate)	BRIGHT LED ELECTRONICS CORP	BPC-817XXXXXX, BPC-817MXXXXXX, BPC-817SXXXXXX	Isolation voltage minimum 5000 Vac, minimum 100 degree C.	FPQU2	UL	
18d. Optical Isolators (U1) (Alternate)	RENESAS ELECTRONICS CORPORATION	PS2561-1	Isolation voltage minimum 5000 Vac, minimum 100 degree C.	FPQU2	UL	
18e. Optical Isolators (U1) (Alternate)	SHENZHEN ORIENT COMPONENTS CO LTD	ORPC-817Mx@, ORPC-817Sx@, ORPC-817x@	Isolation voltage minimum 5000 Vac, minimum 100 degree C.	FPQU2	UL	
19. Transistor (Q1)	Various	Various	Rated 4-10 A, minimum 600 V.	--	--	
20. Heat Sink (HS1) (Consideration as Primary)	Various	Various	Aluminum, minimum 1.5 mm thick. See ILL-4 for detailed dimensions.	--	--	
21. Heat Sink (HS2) (Consideration as Secondary) (for output 5-12Vdc)	Various	Various	Aluminum, minimum 1.2 mm thick. See ILL-5 for detailed dimensions.	--	--	

ENCLOSURES

<u>Type</u>	<u>Supplement ID</u>	<u>Description</u>
Figures	Figure - 1	External View - 1 (Enclosure type A)
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Illustrations	Illustration - 1	Enclosure drawing (type A) (Fixed plug)
Illustrations	Illustration - 2	Enclosure drawing (type A) (Replaceable plug)
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Illustrations	Illustration - 4	Heat Sink (HS1) drawing
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Illustrations	Illustration - 6	Strain Relief drawing
Illustrations	Illustration - 7	Transformer (T1) (For 5V output)
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