

Certificate No. S 50312434

Report No. 10050961 001

Appendix No. 1

Constructional Data Form (CDF) for Electrical Appliances

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License holder : Mean Well Enterprises Co., Ltd.
No.28, Wuquan 3rd Rd., Wugu District, New Taipei City 248 Taiwan

Factory : 1. Mean Well Enterprises Co., Ltd.
No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248 Taiwan

2. Mean Well (GUANGZHOU) Electronics Co. Ltd.
2nd Floor, No. A Building, Yuean Ind. Park, Dongpu Town, TianHe Dist.,
Guangzhou, P.R. China

3. SuZhou Mean Well Technology Co., Ltd.
No. 77, Jian-min Road, Dong-qiao, Pan-yang Ind. Park, Huang-dai Town, Xiang-
cheng District, Suzhou, Jiangsu 215152, P.R. China

Type of Appliance : AC/DC SWITCHING ADAPTOR

Type Designation : GST160Ax (x can be 12, 15, 20, 24, 48)

Rating : Input rating:
100-240Vac, 50/60Hz, 2A

Output rating:
Model GST160A12: 12 Vdc, 11.5 A max., 138 W max.
Model GST160A15: 15 Vdc, 9.6 A max., 144 W max.
Model GST160A20: 20 Vdc, 8 A max., 160 W max.
Model GST160A24: 24 Vdc, 6.67 A max., 160 W max.
Model GST160A48: 48 Vdc, 3.34 A max., 160 W max

Protection Class : Class I

Supply connection : Appliance Inlet

Additional information : Weigh of unit: Max. 0.7 kg.
The power supply is intended to be used in altitudes up to 2000m.
Ambient temperature: Maximum 50 °C

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Plastic Enclosure	Sabic Innovative Plastics	945, 940	V-0, 120°C, min. 1.5 mm thick	UL 94	UL
AC Inlet	Pronic Electronics (Shenzhen) Co., Ltd.	PST-101	10A, 250Vac	IEC/EN 60320-1	VDE, UL
	TECX-UNIONS Technology Corporation	TU-301-A TU-301-AP TU-301-S TU-301-SP TU-301-SF	10A, 250Vac	IEC/EN 60320-1	VDE, UL
	Rong Feng Industrial Co., Ltd.	SS-7B Series, SS-120 Series.	10A, 250Vac	IEC/EN 60320-1	VDE, UL
Fuse (FS1)	Littelfuse Inc.	392	T4A, 250V	IEC/EN 60127-1 IEC/EN 60127-3	VDE, UL
	Ever Island Electric Co., Ltd. and Walter Electric	2010 Serie(s)	T4A, 250V	IEC/EN 60127-1 IEC/EN 60127-3	VDE, UL
	Conquer	MST	T4A, 250V	IEC/EN 60127-1 IEC/EN 60127-3	VDE, UL
Choke (LF1) (Optional)	Mean Well	TR-889A	Min. 105°C	--	--
	Mean Well	TR-889C	Min. 105°C	--	--
- Triple insulation wire of Choke (LF1)	The Furukawa Electric Co Ltd.	TEX-E, TEX-BS	130°C	IEC 60950- 1:2005+A1 EN 60950- 1:2006+A11+A1+ A12 UL 2353	VDE, UL
	Great Leoflon industrial Co Ltd	TRW(B)	130°C	IEC 60950- 1:2005+A1 EN 60950- 1:2006+A11+A1+	VDE, UL

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				A12 UL 2353	
	Totoku Electric Co Ltd.	TIW-2X	130 °C	IEC 60950- 1:2005+A1 EN 60950- 1:2006+A11+A1+ A12 UL 2353	VDE, UL
	The Furukawa Electric Co Ltd.	TEX-FS	155 °C	IEC 60950- 1:2005+A1 EN 60950- 1:2006+A11+A1+ A12 UL 2353	VDE, UL
	Great Leoflon industrial Co Ltd	TRW(F)	155 °C	IEC 60950- 1:2005+A1 EN 60950- 1:2006+A11+A1+ A12 UL 2353	VDE, UL
	Totoku Electric Co Ltd.	TIW-3X	155 °C	IEC 60950- 1:2005+A1 EN 60950- 1:2006+A11+A1+ A12 UL 2353	VDE, UL
Y-Capacitors (C3, C4, C22, C30) (when G/Y bonding wire is provided) (C3=C4=C22= C30=max. 4700pF) (Optional) (Y1 or Y2)	Murata Mfg. Co., Ltd.	KH KX KY	Min. 250Vac, 125 °C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
	TDK-EPC	CD	Min. 250Vac,	IEC/EN 60384-14: 2005	VDE, UL

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	Corporation	CS	125°C	UL 60384-14	
	Walsin Technology Corp	AH AC	Min. 250Vac, 125°C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
	Welson Industrial Co., Ltd.	WD KL	Min. 250Vac, 125°C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
	VISHAY	338 6	Min. 250Vac, 125°C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
X-Capacitor (C1, C2) (Total max. 2.2 µF) (Optional) (X1 or X2 type)	Kemet Electronics Italia Srl (Arcotronics SPA)	R.46	Min. 250Vac, 110/125°C	IEC/EN 60384-14: 2005 UL 60384-14	ENEC, UL
	Kemet Electronics Italia Srl (Arcotronics SPA)	R.49	Min. 250Vac, 110°C	IEC/EN 60384-14: 2005 UL 60384-14	ENEC, UL
	EPCOS Electronic Components S.A.	B3292#	Min. 250Vac, 105°C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
	ISKRA SISTEMI, d.d.	KNB 1530	Min. 250Vac, 100°C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
	ISKRA SISTEMI, d.d.	KNB 1560	275V, 110°C or 300V, 125°C for VDE 275V, 110°C or 275V, 125°C or 300V, 125°C for UL	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
	Liow Gu Electronics Industry Co. Ltd.	GS-L	Min. 250Vac, 110°C	IEC/EN 60384-14: 2005 UL 60384-14	ENEC, UL

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	Pilkor Electronics Ltd.	PCX2 335M	Min. 250Vac, 105°C	IEC/EN 60384-14: 2005 UL 60384-14	ENEC, UL
	Pilkor Electronics Ltd.	PCX2 337	Min. 250Vac, 110°C	IEC/EN 60384-14: 2005 UL 60384-14	ENEC, UL
	VISHAY Capacitors Belgium NV	339	Min. 250Vac, 110°C	IEC/EN 60384-14: 2005 UL 60384-14	ENEC, UL
	Cheng Tung Industrial Co., Ltd.	CTX	Min. 250Vac, 100°C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
	Shiny Space Enterprise Co., Ltd.	SX1	Min. 250Vac, 100°C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
	Xiamen Faratronic	MKP62	Min. 250Vac, 110°C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
	Hua Jung	MKP	Min. 250Vac, 110°C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
	Carli	MPX	Min. 250Vac, 100 or 110°C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
(Max. 1.0 µF use only)	Joey	MPX	Min. 250Vac, 105°C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
	EPCOS Electronic Components S.A.	B3292#CD series	Min. 250Vac, 110°C	IEC/EN 60384-14: 2005 UL 60384-14	ENEC, UL
(Max. 1.0 µF use only)	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	Min. 250Vac, 110°C	IEC/EN 60384-14: 2005 UL 60384-14	ENEC, UL
Varistor (ZNR1) (Optional)	Thinking Electronic	TVR10511-M, TVR14511-M	320Vac, 410Vdc (Flame class of	IEC/EN 61051-1 IEC/EN 61051-2	VDE, UL

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	Industrial Co., Ltd.		body coating complied with V- 0), 125°C	UL 1449 (SPD type 3 approved)	
	Thinking Electronic Industrial Co., Ltd.	TVR10471-M, TVR14471-M	300Vac, 385Vdc (Flame class of body coating complied with V- 0), 125°C	IEC/EN 61051-1 IEC/EN 61051-2 UL 1449 (SPD type 3 approved)	VDE, UL
	Thinking Electronic Industrial Co., Ltd.	TVR10561-M, TVR14561-M	350Vac, 450Vdc (Flame class of body coating complied with V- 0), 125°C	IEC/EN 61051-1 IEC/EN 61051-2 UL 1449 (SPD type 3 approved)	VDE, UL
	Joyin Co., Ltd.	JVT10S471K or JVT14S471K	300Vac, 385Vdc (Flame class of body coating complied with V- 0), 125°C	IEC/EN 61051-1 IEC/EN 61051-2 UL 1449 (SPD type 3 approved)	VDE, UL
	Joyin Co., Ltd.	JVT10S5111K or JVT14S511K	320Vac, 410Vdc (Flame class of body coating complied with V- 0), 125°C	IEC/EN 61051-1 IEC/EN 61051-2 UL 1449 (SPD type 3 approved)	VDE, UL
	Joyin Co., Ltd.	JVT10S561K or JVT14S561K	350Vac, 450Vdc (Flame class of body coating complied with V- 0), 125°C	IEC/EN 61051-1 IEC/EN 61051-2 UL 1449 (SPD type 3 approved)	VDE, UL
Choke (LF2) (Optional)	Mean Well	TR-948	Min. 105°C	--	--
	Mean Well	TR-948B	Min. 105°C	--	--
Choke (L2) (Optional)	Mean Well	TR-949	Min. 105°C	--	--
	Mean Well	TR-949B	Min. 105°C	--	--
Choke (L1)	Mean Well	TF-5286	Min. 105°C	--	--

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Object/part No	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
(Optional)					
- Bobbin of Choke (L1)	Sumitomo Bakelite Co Ltd.	PM-9820, PM- 9630	Phenolic Molding Compound (PMC). V-0, min. 150°C, min. 0.51 mm thick.	UL 94 UL 746	UL
	E I Dupont De Nemours & Co Inc	FR-530	Polyethylene Terephthalate (PET). V-0, min. 155°C, min. 0.51 mm thick.	UL 94 UL 746	UL
	Nan Ya Plastics Corp Plastics 4th Div	1403G3	Polybutylene Terephthalate (PBT). V-0, min. 130°C, min. 0.51 mm thick.	UL 94 UL 746	UL
	Chang Chun Plastics Co Ltd	T375J, T375HF	Phenolic Molding Compound (PMC). V-0, min. 150°C, min. 0.51 mm thick.	UL 94 UL 746	UL
	Chang Chun Plastics Co Ltd	4115	Polybutylene Terephthalate (PBT). V-0, min. 120°C, min. 0.75 mm thick.	UL 94 UL 746	UL
	Chang Chun Plastics Co Ltd	4130	Polybutylene Terephthalate (PBT). V-0, min. 140°C, min. 0.74 mm thick.	UL 94 UL 746	UL
- Insulation tape of Choke (L1)	3m Company Electrical Markets Div (EMD)	1351T-1, 1351T-2, 1351T-3, 1350T-1, 1350T-3, 1351-1, 1351-2,	130°C	UL 510	UL

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		1350F-1, 1318-1, 44, 44T-A, 1351-2			
	Symbio Inc.	35661, 35660Y, 35660, MY9YAF	130°C	UL 510	UL
	Bondtec Pacific Co., Ltd.	370S, 201-45, 201, 201S, 371F, 801	130°C	UL 510	UL
- Triple insulation wire of Choke (L1)	The Furukawa Electric Co Ltd.	TEX-E, TEX-BS	130°C	IEC 60950- 1:2005+A1 EN 60950- 1:2006+A11+A1+ A12 UL 2353	VDE, UL
	GREAT LEOFONINDUS TRIAL CO LTD	TRW(B)	130°C	IEC 60950- 1:2005+A1 EN 60950- 1:2006+A11+A1+ A12 UL 2353	VDE, UL
	Totoku Electric Co Ltd.	TIW-2X	130°C	IEC 60950- 1:2005+A1 EN 60950- 1:2006+A11+A1+ A12 UL 2353	VDE, UL
	The Furukawa Electric Co Ltd.	TEX-FS	155°C	IEC 60950- 1:2005+A1 EN 60950- 1:2006+A11+A1+ A12 UL 2353	VDE, UL
	GREAT LEOFONINDUS TRIAL CO LTD	TRW(F)	155°C	IEC 60950- 1:2005+A1 EN 60950- 1:2006+A11+A1+	VDE, UL

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				A12 UL 2353	
	Totoku Electric Co Ltd.	TIW-3X	155 °C	IEC 60950- 1:2005+A1 EN 60950- 1:2006+A11+A1+ A12 UL 2353	VDE, UL
Bridge Capacitor (1. when Green/Yellow Bonding Wire provided and two capacitance series by solder. C31, C32 each maximum 4700pF; 2. when Green/Yellow Bonding Wire provided and two capacitance series by PCB, C31, C32 each maximum 3300pF; 3. when Green/Yellow Bonding Wire not provided: C3, C4, C22 Each maximum 470pF, C31, C32 each maximum 3300pF, C30 maximum 100 pF) (Optional) (Y1 type)	Murata Mfg. Co., Ltd.	KX	Min. 250Vac, 125°C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL

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	TDK-EPC Corporation	CD	Min. 250Vac, 125°C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
	Walsin Technology Corp	AH	Min. 250Vac, 125°C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
	Welson Industrial Co., Ltd.	WD	Min. 250Vac, 125°C	IEC/EN 60384-14: 2005 UL 60384-14	VDE, UL
Photo Coupler (U3, U4)	Lite-On Technology Corporation	VDE: LTV-817 FI: LTV817 UL: LTV-817 may be followed by suffix M, S, S-TA, S TA1, S-TP	Dti=0.4mm Int. dcr=5.2mm Ext. dcr=7.0mm, thermal cycling test, 115°C	IEC/EN 60950-1 IEC/EN 60747-5-2 UL 1577	VDE, UL, FIMKO
	Sharp Corporation Electronic Components and Devices Division	PC123	Dti=0.4mm, Ext. dcr=8.0mm, thermal cycle test, 110°C	IEC/EN 60950-1 IEC/EN 60747-5-2 UL 1577	VDE, Semko, UL
	COSMO Electronics Corporation	K1010	Dti=0.7mm, Ext. dcr=8.0mm, thermal cycle test, 100°C	IEC/EN 60950-1 IEC/EN 60747-5-2 UL 1577	VDE, Semko, UL
	Toshiba Corp, Semiconductor Co Discrete Semiconductor Div	TLP785F	Di = 0.6 mm, Int. dcr = 5.0 mm, Ext. dcr = 8 mm, thermal cycling test, 115 °C	IEC/EN 60747-5- 5, IEC/EN 60950-1, UL 1577	VDE, UL
	Toshiba Corp, Semiconductor Co Discrete Semiconductor Div	TLP785	Di = 0.6 mm, Int. dcr = 5.0 mm, Ext. dcr = 6.5 mm, thermal cycling test, 115 °C	IEC/EN 60747-5- 5, IEC/EN 60950-1, UL 1577	VDE, UL
	Toshiba Corp, Semiconductor Co Discrete Semiconductor	TLP781F	Di = 0.6 mm, Int. dcr = 5.0 mm, Ext. dcr = 8 mm, thermal cycling	IEC/EN 60747-5- 2, IEC/EN 60950-1, UL 1577	VDE, UL

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	Div		test, 115 °C		
	Toshiba Corp, Semiconductor Co Discrete Semiconductor Div	TLP781	Di = 0.6 mm, Int. dcr = 5.0 mm, Ext. dcr = 6.5 mm, thermal cycling test, 115 °C	IEC/EN 60747-5- 2, IEC/EN 60950-1, UL 1577	VDE, UL
Transformer (T1)	Mean Well	TF-5281 (for x=12), TF-5282 (for x=15), TF-5283 (for x=20), TF-5284 (for x=24), TF-5285 (for x=48)	Class B	Applicable parts in IEC 60950-1 and evaluated acc. To IEC 60085	Accepted by TÜV Rheinland
	Yu Jing	TF-5281 (for x=12), TF-5282 (for x=15), TF-5283 (for x=20), TF-5284 (for x=24), TF-5285 (for x=48)	Class B	Applicable parts in IEC 60950-1 and evaluated acc. To IEC 60085	Accepted by TÜV Rheinland
- Triple insulation wire of transformer (T1)	Totoku Electric Co., Ltd.	TIW-2	130 °C	IEC 60950- 1:2005+A1 EN 60950- 1:2006+A11+A1+ A12 UL 2353	VDE, UL
	Totoku Electric Co., Ltd.	TIW-3	155 °C	IEC 60950- 1:2005+A1 EN 60950-	VDE, UL

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				1:2006+A11+A1+A12 UL 2353	
	Furukawa Electric Co., Ltd.	TEX-E	130°C	IEC 60950-1:2005+A1 EN 60950-1:2006+A11+A1+A12 UL 2353	VDE, UL
- Bobbin of transformer (T1)	Sumitomo Bakelite Co Ltd.	PM-9820, PM-9630	Phenolic Molding Compound (PMC). V-0, min. 150°C, min. 0.51 mm thick.	UL 94 UL 746	UL
	E I Dupont De Nemours & Co Inc	FR-530	Polyethylene Terephthalate (PET). V-0, min. 155°C, min. 0.51 mm thick.	UL 94 UL 746	UL
- Insulation tape of transformer (T1)	3M Company Electrical Markets Div. (EMD)	1351T-1, 1351T-2, 1351T-3, 1350T-1, 1350T-3, 1351-1, 1351-2, 1350F-1, 1318-1	130°C	UL 510	UL
	Bondtec Pacific Co., Ltd.	370S, 371F	130°C	UL 510	UL
	Symbio Inc.	MY9YAF, 35660Y, 35660	130°C	UL 510	UL
	Jingjiang Yahua Pressure Sensitive Glue Co., Ltd.	CT	130°C	UL 510	UL
- Margin tape of	3M Company	44, 44T-A	130°C	UL 510	UL

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transformer (T1)	Electrical Markets Div. (EMD)				
	Symbio Inc.	35661	130 °C	UL 510	UL
	Jingjiang Yahua Pressure Sensitive Glue Co., Ltd.	WF	130 °C	UL 510	UL
Discharging IC (U2)	On-Semiconductor	NCP4810	Maximum AC1 pin Voltage related to AC2 pin = -700V to 700V, I _{disch_min} = 0.85 mA (Applicable for use to mains supply 100- 240Vac 60-50Hz) X-Caps.: 0.047-2.2 µF. Resistors: 150k- 1MΩ	IEC 60950-1/A2	CB issue by NEMKO

Supplementary information:

1. Provided evidence ensures the agreed level of compliance. See OD-CB2039.
2. For photocoupler, D_{ti} = inside distance through insulation, Int. dcr = internal creepage distance, Ext. dcr = external creepage distance.

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Table C:**Functional Components**

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PCB	Interchangeable	Interchangeable	V-1 or better, min. 105°C	UL 796	UL
Mylar sheet	Interchangeable	Interchangeable	Min. VTM-2 or V- 2, min. 0.2 thickness	UL 94	UL
Bleeder Resistors (R7, R8)	Interchangeable	Interchangeable	Total 150k-440 kΩ, min. 1/4W	--	--
Bridge Rectifier (BD1)	Interchangeable	Interchangeable	Min. 6 A, min. 800 V	--	--
Storage Capacitor (C5)	Interchangeable	Interchangeable	150 µF, min. 420 V, min. 105 °C	--	--
Transistor (Q5, Q6)	Interchangeable	Interchangeable	Min. 12 A, min. 500 V	--	--

Supplementary information:

1. Provided evidence ensures the agreed level of compliance. See OD-CB2039.

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