

Certificate No. S 50547005 0002 Our Reference ZC10-SN-50056859 005 Appendix No. 1

Constructional Data Form (CDF) for Electrical Appliances

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License holder : Zhejiang Minglei Tools Industry Co., Ltd.
No. 1858, Jingjiang Road, Jiangshan Town, Yinzhou District, Ningbo City, 315100
Zhejiang, P. R. China

Factory : Zhejiang Minglei Tools Industry Co., Ltd.
No. 1858, Jingjiang Road, Jiangshan Town, Yinzhou District, Ningbo City, 315100
Zhejiang, P. R. China

Type of Appliance : Cordless screwdriver

Type Designation : **ML-IS23-180D**

Rating : DC 18 V

Supply connection : ☐ fixed power cord
☐ permanent connection
☐ appliance inlet
☐ direct plug in
☒ battery operated

Please tick above box ☒ when applicable

Additional information : PA6-GF30+TPE

Critical Components

Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
Motor	Wenling Jinmazhi Micro & Special Motor Manufacture Co., Ltd.	RS-735S-18V	DC 18 V, Armature (average value between plates): 54,7 mΩ (23,1 °C), Class 120	EN 62841-1 EN 62841-2-2	Tested with appliance
Switch	Zhejiang Yueqing Jielahua Electronics Co., Ltd.	FA024A-20/1	DC 7,2-24 V, 20 A, 25T55, 5E4	EN 61058-1	TUV SUD B 045387 0031 Rev. 02
Internal wire (for power transmission)	Ningbo Sunmoon Wire Cable Product Company	RV	0,75 mm ² or 1,0 mm ² , 300/500 V	EN 62841-1 EN 62841-2-2	Tested with appliance
Alternative	Ningbo Riyue Dianxian Dianlan Zhizao Youxian Gongsi	RV	0,75 mm ² or 1,0 mm ² , 300/500 V	EN 62841-1 EN 62841-2-2	Tested with appliance

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Alternative	Zhejiang Xingda Dianzi Xianlan Youxian Gongsi	08(RV-90)	0,75 mm ² or 1,0 mm ²	EN 62841-1 EN 62841-2-2	Tested with appliance
Alternative	Yueqing Wrlong High Temperature Wire & Cable Co., Ltd.	RV	0,75 mm ² or 1,0 mm ² , 300/500 V	EN 62841-1 EN 62841-2-2	Tested with appliance
Alternative	Ningbo Yinzhou Xinlilai Plastic Product Co., Ltd.	RV	0,75 mm ² or 1,0 mm ² , 300/500 V	EN 62841-1 EN 62841-2-2	Tested with appliance
Alternative	Zhejiang Xingda Electronics Wire & Cable Co., Ltd.	RV	0,75 mm ² or 1,0 mm ² , 300/500 V	EN 62841-1 EN 62841-2-2	Tested with appliance
Alternative	Zhejiang Wrlong High-Temperature Wire & Cable Co., Ltd.	AF200-1	0,75 mm ² or 1,0 mm ²	EN 62841-1 EN 62841-2-2	Tested with appliance
Alternative	Zhejiang Zhitong Cable & Wire Co., Ltd.	60227 IEC08(RV-90)300/500V	0,75 mm ² or 1,0 mm ²	EN 62841-1 EN 62841-2-2	Tested with appliance
Alternative	Wenzhou Danyue Cable Technology Co., Ltd.	60227 IEC08(RV-90)300/500V	0,75 mm ² or 1,0 mm ²	EN 62841-1 EN 62841-2-2	Tested with appliance
Alternative	GUANGZHOU FENGTAI MEIHUA CABLE CO LTD	1332 3266	16-18 AWG	EN 62841-1 EN 62841-2-2	UL E204798 + Tested with appliance
Alternative	ZHEJIANG IRONFLON (TEFLON) WIRE & CABLE CO LTD	1332	16-18 AWG	EN 62841-1 EN 62841-2-2	UL E252458 + Tested with appliance
Alternative	Xingda Technology Stock Co Ltd	1007	16-18 AWG	EN 62841-1 EN 62841-2-2	UL E187208 + Tested with appliance

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Alternative	ZHEJIANG WRLONG HIGH- TEMPERATURE WIRE&CABLE CO LTD	1332	16-18 AWG	EN 62841-1 EN 62841-2-2	UL E306784 + Tested with appliance
Alternative	SHANGHAI JINGFENG WIRE & CABLE CO LTD	1007	16-18 AWG	EN 62841-1 EN 62841-2-2	UL E320487 + Tested with appliance
Alternative	YANG TAI WIRE & CABLE CO LTD	1332	16-18 AWG	EN 62841-1 EN 62841-2-2	UL E214859 + Tested with appliance
Alternative	XINYA ELECTRONIC CO LTD	1015	16-18 AWG	EN 62841-1 EN 62841-2-2	UL E170689 + Tested with appliance
Internal wire (for other parts)	Zhejiang Xingda Dianzi Xianlan Youxian Gongs	AVR-90	0,3 mm ²	EN 62841-1 EN 62841-2-2	Tested with appliance
Alternative	Ningbo Yinzhou Xinlilai Plastic Product Co., Ltd.	RV	0,2-0,3 mm ² , 300/500 V	EN 62841-1 EN 62841-2-2	Tested with appliance
Alternative	Zhejiang Xingda Electronics Wire & Cable Co., Ltd.	RV	0,2-0,3 mm ² , 300/500 V	EN 62841-1 EN 62841-2-2	Tested with appliance
Alternative	Xingda Electronics Wire & Cable Co., Ltd.	1007	22-28 AWG	EN 62841-1 EN 62841-2-2	UL E187208 + Tested with appliance
Alternative	Xinya Electronic Co., Ltd.	1007 1430	22-28 AWG	EN 62841-1 EN 62841-2-2	UL E170689 + Tested with appliance
Alternative	Guangzhou Fengtai Meihua Cable Co., Ltd.	1430 1332	22-28 AWG	EN 62841-1 EN 62841-2-2	UL E204798 + Tested with appliance

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Battery pack 1)	ISC GmbH International Service Center	Battery Power-X- Change 1,5	18 V d.c., 1500 mAh, including below components	EN 62841-1 EN 62841-2-2	Tested with appliance
				UN 38.3	SICIT 1119080228
- Battery cell	JIANGSU TENPOWER LITHIUM CO LTD	ICR18650 1500mAh	3,7 V, 1500 mAh	IEC 62133-2	LCIE CB FR_704266
- Protection PCB assembly	ISC GmbH International Service Center	Power-X-Change S2 Pack V0.4	--	EN 62841-1 EN 62841-2-2	Tested with appliance
Battery pack 2)	ISC GmbH International Service Center	Battery Power-X- Change 5,2	18 V d.c., 5200 mAh	EN 62841-1 EN 62841-2-2	Tested with appliance
				UN 38.3	SICIT 1120010452
- Battery cell	JIANGSU TENPOWER LITHIUM CO LTD	ICR20650 2600mAh	3,7 V, 2600 mAh	IEC 62133-2	UL CB DK-86452-UL
- Protection PCB assembly	ISC GmbH International Service Center	PXC-Power pack- V0.3-JB 5.2A	--	EN 62841-1 EN 62841-2-2	Tested with appliance
Battery charger	ISC GmbH International Service Center	Power-X- Charger 3A	Input: 200-250 V~, 50-60 Hz, 72 W Output: 20 V d.c., 3 A	EN 60335-1 EN 60335-2- 29	TÜV SÜD Z1A 024192 1888 Rev. 03
Illuminating LED	Ningbo Wenlong Electronic Co., Ltd.	SMD5730-5050	150 mA, DC 3.0-3.4 V	IEC 62471	SGS SHES140200 043801
Inductor	Dongguan Ming Core Electron Co., Ltd.	--	0,4-0,5 µH, 2 pc	EN 62841-1 EN 62841-2-2	Tested with appliance
Label	Avery (China) Co., Ltd.	TC/S333	100°C ~ -40°C, affixed to PA enclosure	UL 969	UL MH20558