#### Keen Ocean Industrial Ltd. He Yuan Sky Wealth Electronic and Plastic Co., Ltd.

FACTORY:

Tel(电话):

侨洋实业有限公司

河源天裕电子塑胶有限公司

The South Side of Keqi Road, The East Side of

OFFICE: Room 3405, 34/F., Cable TV Tower,

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Xinggong Road of Heyuan, Hi-Tech Development Zone,

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办公室地址: 香港九龙新界荃湾海盛路9号

有线电视大楼 34 楼 5 室

工厂地址: 中国广东省河源市高新技术开发区兴工大道东面

科七路南边 86-762-2203101

Tel(电话): (852) 3102-9700 / (852) 2490-6110

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### SPECIFICATION FOR APPROVAL

承认书

CUSTOMER (客户) : 杭州三坛医疗科技有限公司

PRODUCT (产品) : TOROIDAL TRANSFORMER(环形变压器)

DESCRIPTION (描述) : I/P: AC 220V/50Hz

OUR MODEL (产品型号) : T8BFN-85419 (TTO-85419-00L)

CUSTOMER MODEL(客户型号) : 1000VA

Keen Ocean Engineering Department(侨 洋 实 业 有 限 公 司工程部) Sky Wealth Engineering Department(河源天裕电子塑胶有限公司工程部)

Date of Issue (发行日期): 28-APR-2022(2022年04月02日)

**XYH** 

Drawn by(制作):

APR.28,2022 (2022年04月28日) 刘祖超

APR.28,2022 (2022年04月28日)

Checked by (审核):

APR.28,2022 (2022年04月28日)

Though

Approved by(承认):

Please ki	indly sign	back for	approval	(客户签字)	•

Accepted by Customer (客户承认人):

Signed and chopped(签名和盖章) Date(日期)

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## Keen Ocean Industrial Ltd. (侨洋实业有限公司)

# He Yuan Sky Wealth Electronic and Plastic Co. Ltd. (河源天裕电子塑胶有限公司)

#### 电气性能(ELECTRICAL PROPERTIES)

产品型号(OUR MODEL) : T8BFN-85419 (TTO-85419-00L)

客户型号(CUST. MODEL) : 1000VA

标准(STANDARD) : UL 60601-1 class B insulation system(130Deg.C) E213684

产品重量(WEIGHT) : 8.22KGS(REF)

/ 開至重(WEIGHI)	. 0.221(00(1121)				
初级	编号	抽头编号	输入电压及频率	空载电流	
(PRIMARY)	(NO.)	(TAP.NO.)	(VOLTAGE)	(EXCITING CURRENT OPEN CIRCUIT)	
	Р	1-2	AC 220V 50Hz	90mA Max	
次级	编号	抽头编号	空载电压	负载电压	
(SECONDARY)	(NO.)	(TAP.NO.)	(OPEN CIRCUIT VOLTAGE +/- 5%)	(LOADING VOLTAGE +/- 5%)	
	S	4-5	AC 230.5V	AC 220V 4.55A	
绝缘电阻	初级对次级(PRIMARY - SECONDARY)		SECONDARY)	100M OHM @ DC 500V	
(INSULATION RESISTANCE)					
电气强度	初级对次级(PRIMARY - SECONDARY)		ECONDARY)	AC 4000V 5mA FOR 1 MINUTE	
(DIELECTRIC STRENGTH)	初级对屏	初级对屏蔽(PRIMARY - SCN)		AC 2500V 5mA FOR 1 MINUTE	
	次级对屏蔽(SECONDARY-SCN)		RY-SCN)	AC 2500V 5mA FOR 1 MINUTE	
温升	额定连续负载(RATED CONTINUOUS LOADING):		ONTINUOUS LOADING):	85Deg.Cmax AT Ta = 25Deg.C	
(TEMPERATURE RISE)	1000VA(AC)			(输入Input: AC 220V/50Hz)	

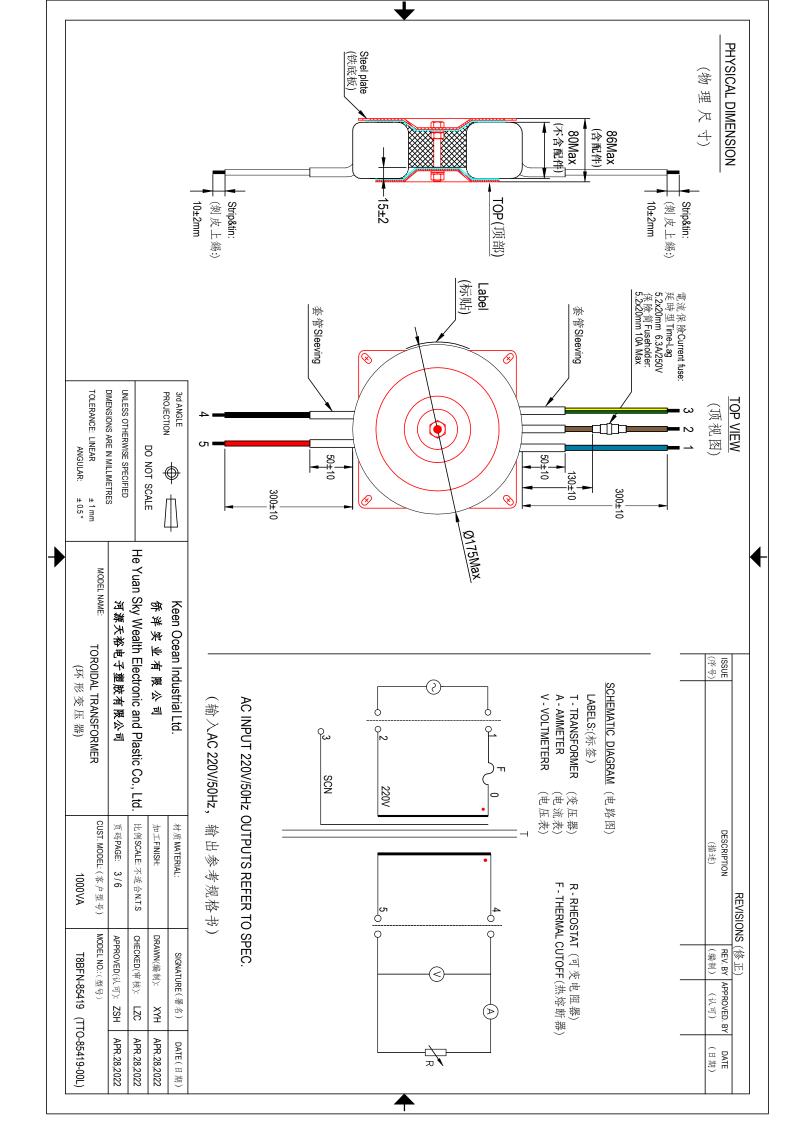
保护装置 (PROTECTIVE DEVICE)		
初级(PRIMARY) A4-10A-F 130Deg.C THERMAL CUTOFF (10A/250V)		
次级(SECONDARY)	*****	

出线(LEAD OUT)				
线号	引线型号	长度	剥皮和上锡	
LEAD NO.	ТҮРЕ	LENGTH	STRIP&TIN	
1	UL 1015 AWG#18 蓝色(BLUE)	300+/-10 mm	10+/-2 mm	
2	UL 1015 AWG#18 棕色(BROWN)	300+/-10 mm	10+/-2 mm	
3	UL 1015 AWG#18 黄绿(YELLOW/GREEN)	300+/-10 mm	10+/-2 mm	
4	UL 1015 AWG#18 黑色(BLACK)	300+/-10 mm	10+/-2 mm	
5	UL 1015 AWG#18 红色(RED)	300+/-10 mm	10+/-2 mm	

配件 (MOUNTING)					
铁介(STEEL DISHED WASHER)	I.D.:8.5±0.5 mm O.D.:120±2.0 mm THK .:1.5±0.3 mm	1 个(PC)	黑色(BLACK)		
胶介(NEOPRENE WASHER)1	I.D.:9.0±0.5 mm O.D.:148±2.0 mm THK ::1.5±0.3 mm	1 个(PC)	黑色(BLACK)		
胶介(NEOPRENE WASHER)2	I.D.:35±0.5 mm O.D.:150±2.0 mm THK .:1.5±0.3 mm	1 个(PC)	黑色(BLACK)		
平介(FLAT WASHER)	M8	1 个(PC)	黑色(BLACK)		
弹介(SPRING WASHER)	M8	1 个(PC)	黑色(BLACK)		
螺丝(SCREW)	M8x80mm	1 个(PC)	黑色 (BLACK)		
螺母(NUT)	M8	1 个(PC)	黑色 (BLACK)		

_	说明(REMARKS)

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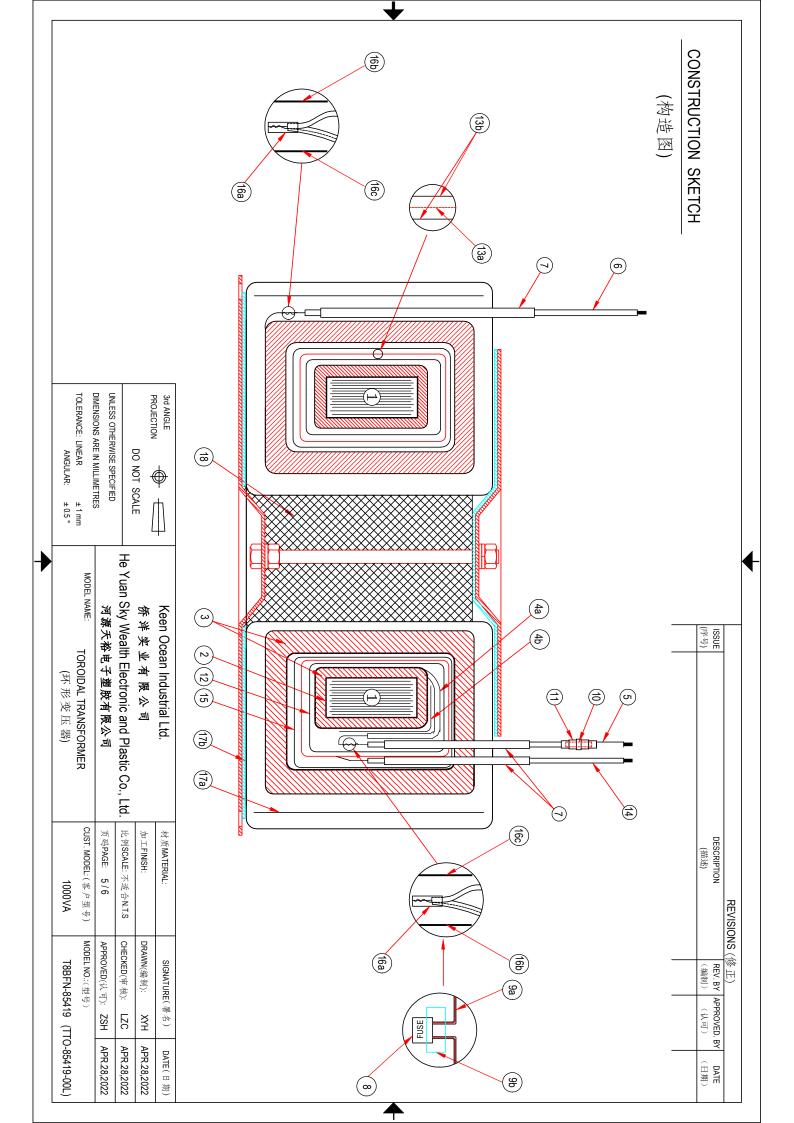
## Keen Ocean Industrial Ltd.(侨 洋 实 业 有 限 公 司) He Yuan Sky Wealth Electronic and Plastic Co. Ltd.(河源天裕电子塑胶有限公司)

产品型号(OUR MODEL): T8BFN-85419 (TTO-85419-00L)

客户型号(CUST. MODEL): 1000VA

	物料(MATERIAL)	物料表(MATERIAL LI: 描述(DESCRIPTION)	UL标准(STANDARD)	制造商/供应商(MANUFACTURERS / SUPPLIERS)
1	铁心(Core)	硅钢片(Silicon Steel) 尺寸(Size): HtxlDxOD=50x75x155mm		新日铁(Nippon Steel) 或同等的(or equivalent)
		序度(Thickness): 0.20~0.35mm		政内等的(or equivalent)
	初级绕组与铁心之间的绝缘	聚酯薄膜(Polyethylene Terephthalate Film)	UL:E93687	杜邦(Dupont Teijin Films U S L P)
	(Insulation between Core and Primary Winding)	型号( Type): EL 或(OR) WC MYLAR 厚度( Thickness): 0.125mm		或同等的(or equivalent)
	Primary Winding)	67%重叠 1层 总厚度: 0.375mm		
		( 67% overlap 1 layer total thickness): 0.375mm)		
	初次级电磁金属线	漆包銅線Polyester-Imide Enameled Wire(EIAI/U,HAI/U) MW-35C	UL:E201757	'深圳太平洋Pacific Electric Wire&Cable(shenzhen)Co.,Ltd.
	Magnet Wire (Primary & Secondary)	Thermal Endurance Class H (180Deg.C) PEWH/U or 漆包銅線Polyester-imide overcoat Polyamide-imide (EIAI/U,HAI/U)	UL:E201757	或同等的(or equivalent) 深圳太平洋(Pacific-Thai Electric Wire & Cable Co.,Ltd.)
	(i iiiiary a occoridary)	Thermal Endurance Class C ( 200 Deg.C) MW35 or	OL.LEGITOT	或同等的(or equivalent)
		漆包铜线Polyester Enameled Wire (PEW) MW 5-C	UL:E234896	台一铜业TAI-I Copper (GuangZhou) Co Ltd
		Thermal Endurance Class F (155Deg.C) 或(OR) 漆包铜线Polyester-imide Wire (EIW) MW 30-C	UL:E234896	或同等的(or equivalent) 台一铜业TAI-I Copper (GuangZhou) Co Ltd
		Thermal Endurance Class H (180Deg.C) 或(OR)	OL.L254030	或同等的(or equivalent)
		漆包銅線Polyester-imide overcoat Polyamide-imide (XEAIW/200)	UL:E258125	河源天裕(He Yuan Sky Wealth Electronic And Plastic Co Ltd.)
		Thermal Endurance Class C ( 200 Deg.C) MW35-C Primary(初级): 2xdia1.00mm 376 圈(turns)		或同等的(or equivalent)
		Secondary(次级): 2xdia1.00mm 376 图(turns)  2xdia1.00mm 376 图(turns)		
	交叉绝缘(初级绕组头线和尾线)	a).PVC套管(PVC TUBE 2P300)	UL:E176865	彼利奥集团有限公司(P.LEO & CO(B C) Ltd.)
	Crossover Insulation	300V 105Deg.C 或(OR)	UL:E53690	或同等的(or equivalent)
	(start and end)	套质纤维管(Silicone Resin 500) 155Deg.C 600V 或(OR)	UL:E53690	VARFLEX CORP 或同等的(or equivalent)
		套质纤维管Silicone Coated Fiberglas 2R-SG	UL:E176865	彼利奥集团有限公司(P.LEO & CO(B C) Ltd.)
		600V 155Deg.C OR	=====	或同等的(or equivalent)
		套质纤维管(Silicone fiberglass Tube) SGS-25/40 2500/4000V 200Deg.C	UL:E233804	深圳华创威ShenZhen Wahchangwei Industrial Co Ltd 或同等的(or equivalent)
		b).聚酯胶纸1P802 Polyester tape(used for attachment)	UL:E126174	被利奥集团有限公司(P.LEO & CO(B C) Ltd.)
	3rt /37 71 /4b	厚度 (Thickness): 0.05mm 3层 (3 layers)		或同等的(or equivalent)
	初级引线 (Primary leads)	UL-1015 AWG #18 VW-1; 600V 105Deq.C	UL:E189674	深圳东聚Shenzhen Dong Ju Wire & Cable Co.,Ltd. 或同等的(or equivalent)
	次级引线	UL-1015 AWG #18 VW-1;	UL:E189674	
	(Secondary leads)	600V 105Deg.C		或同等的(or equivalent)
	所有引线保护 (Protection of all leads)	PVC套管 (PVC TUBE 2P300)	UL:E176865	被利奥集团有限公司(P.LEO & CO(B C) Ltd.)
	(Frotection of all leads)	300V 105Deg.C 或(OR) 套质纤维管 (Silicone Resin 500)	UL:E53690	或同等的(or equivalent) VARFLEX CORP
		155Deg.C 600V 或(OR)	02.20000	或同等的(or equivalent)
		套质纤维管Silicone Coated Fiberglas 2R-SG	UL:E176865	彼利奥集团有限公司(P.LEO & CO(B C) Ltd.)
		600V 155Deg.C OR 套质纤维管(Silicone fiberglass Tube) SGS-25/40	UL:E233804	或同等的(or equivalent) 深圳华创威ShenZhen Wahchangwei Industrial Co Ltd
		多数対象性(Silicone liberglass Tube) 3G3-25/40 2500/4000V 200Deg.C	OL.E233804	或同等的(or equivalent)
	初级保险丝	型号(Type): A4-10A-F	UL:E140847	雅宝电子Aupo Electronics Inc.
	(Primary thermal cutoff) 初级热熔断器绝缘	130 Deg.C (250V/10A)	UL:E176865	或同等的(or equivalent)
	例級热格断番吧琢 (Insulation of primary thermal	a).PVC套管(PVC TUBE 2P300) 300V 105Deg.C 或(OR)	UL.E170005	彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent)
	cutoff)	套质纤维管(Silicone Resin 500)	UL:E53690	VARFLEX CORP
		155Deg.C 600V 或(OR)		或同等的(or equivalent)
		套质纤维管Silicone Coated Fiberglas 2R-SG 600V 155Deg.C OR	UL:E176865	彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent)
		套质纤维管(Silicone fiberglass Tube) SGS-25/40	UL:E233804	深圳华创威ShenZhen Wahchangwei Industrial Co Ltd
		2500/4000V 200Deg.C		或同等的(or equivalent)
		b).聚酯胶纸1P802 Polyester tape(used for attachment) 厚度(Thickness): 0.05mm 3层(3 layers)	UL:E126174	彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent)
)	初级電流保險	型號(Type): T6.3A L 6.3A/250V	UL:E221465	深圳良賸Shenzhen Lanson Electronics Co Ltd
	Primary current fuse	5x20mm 延時型Time-lag		或同等的(or equivalent)
1	电流保险丝盒	保險盒材料: PA66 101	UL:E41938	杜邦 E I Dupont De Nemours & Co Inc
2	Fuseholder 初级绕组与屏蔽间绝缘	聚酯薄膜Polyethylene Terephthalate (PET) Film	UL:E93687	或同等的(or equivalent) 杜邦(Dupont Teijin Films U S L P)
-	(Insulation between	型号(Type): EL 或(OR) WC	02.20007	或同等的(or equivalent)
	Primary winding and	厚度( Thickness): 0.075mm		
	Screen Shielding)	50%重叠 3层 总厚度: 0.45mm (50% overlap 3 layers total thickness: 0.45mm)		
3	屏蔽与它自己的绝缘	a).铜箔Copper Foil		河源飞兴达(Heyuan Feixingda)
	(Screen Shielding and its	厚度(Thickness): 0.05mm 1层(1 layer)		或同等的(or equivalent)
	own insulation)	b).聚酯胶纸1P802 Polyester tape	UL:E126174	被利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent)
	屏蔽引线	厚度(Thickness): 0.05mm 1层(1 layer) UL-1015 AWG #18 VW-1;	UL:E189674	或同等的(or equivalent) 深圳东聚Shenzhen Dong Ju Wire & Cable CoLtd.
	(Lead of Screen Shielding)	600V 105Deg.C		或同等的(or equivalent)
5	屏蔽与次级绕组间绝缘	聚酯薄膜Polyethylene Terephthalate (PET) Film	UL:E93687	杜邦(Dupont Teijin Films U S L P)
	(Insulation between Screen Shielding and	型号( Type): EL 或(OR) WC 厚度( Thickness): 0.075mm		或同等的(or equivalent)
	Secondary winding)	50%重叠 3层 总厚度: 0.45mm		
	, ,,	(50% overlap 3 layers total thickness: 0.45mm)		
6	所有引线连接绝缘 (Insulation of all	a).PVC套管(PVC TUBE 2P300) 300V 105Deg.C 或(OR)	UL:E176865	彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent)
	Leads Connections	多数 105Deg.C 数(OR)	UL:E53690	以内等的(or equivalent)  VARFLEX CORP
		155Deg.C 600V 或(OR)		或同等的(or equivalent)
		套质纤维管Silicone Coated Fiberglas 2R-SG	UL:E176865	被利奥集团有限公司(P.LEO & CO(B C) Ltd.)
		600V 155Deg.C OR 套质纤维管(Silicone fiberglass Tube) SGS-25/40	UL:E233804	或同等的(or equivalent) 深圳华创威ShenZhen Wahchangwei Industrial Co Ltd
		2500/4000V 200Deg.C		或同等的(or equivalent)
		b).聚酯胶纸1P802 Polyester tape	UL:E126174	彼利奥集团有限公司(P.LEO & CO(B C) Ltd.)
		厚度(Thickness): 0.05mm 3层 (3 layers) c). 聚酯薄膜Polyethylene Terephthalate (PET) Film	UL:E93687	或同等的(or equivalent) 杜邦(Dupont Teijin Films U S L P)
		型號(Type): MYLAR S 或(OR) MO41	JL.L33007	或同等的(or equivalent)
		厚度(Thickness): 0.25mm		, , ,
7	外层绝缘(Outer Insulation)	a).聚酯胶纸1P802 Polyester tape	UL:E126174	被利奥集团有限公司(P.LEO & CO(B C) Ltd.)
		厚度(Thickness): 0.05mm 1圏(1 turn)   b).聚酯薄膜Polyethylene Terephthalate (PET) Film	UL:E93687	或同等的(or equivalent) 杜邦(Dupont Teijin Films U S L P)
		型号( Type): EL OR WC MYLAR	OL.E93001	成邦(Dupont Teijin Films U S L P)   或同等的(or equivalent)
		厚度( Thickness): 0.05mm		7
		50%重叠 2层 总厚度: 0.20mm		
3	環氧樹脂(Epoxy)	(50% overlap 2 layers total thickness: 0.20mm) 環氧樹脂9002G A(RESIN)	UL:E222812	廣州惠利 Wells Electronic Material(GUANGZHOU)Co Ltd
,	→☆ 于小町/旧(CPU∧y)	「環乳倒脂9002G A(RESIN) 固化劑9002G B(HARDENER) 或者(OR)	UL.EZZZ01Z	
			I	
		環氧樹脂3300 A(RESIN) 固化劑3300B(HARDENER)	UL:E218090	東莞力多DongGuan Eatto Electronic Material Co.,Ltd 或同等的(or equivalent)

说明Remark: 所有物料都符合RoHS要求 All the materials meet the requirements of RoHS.



## Keen Ocean Industrial Ltd. (侨洋实业有限公司)

# He Yuan Sky Wealth Electronic and Plastic Co. Ltd. (河源天裕电子塑胶有限公司)

产品型号(OUR MODEL): T8BFN-85419 (TTO-85419-00L)

客户型号(CUST. MODEL): 1000VA

# 标贴(LABEL)

Model No.: T8BFN-85419
Input: AC 220V 50Hz BLU-BRN
WI. 130 Deg.C THERMAL CUTOFF
SCREEN SHIELDING: YEL/GRN
Output: AC 220V 4.55A BLK-RED

Cust. Ref.:1000VA

E213684

Keen Ocean (TTO-85419-00L)

[ww/yy]

Remark:

ww: week yy: year

样品差异(SAMPLE DEVIATION)			
编号(NO.)	描述(DESCRIPTION)	日期(DATE)	
01	临时没有样品(No sample temporarily).	2022.04.02	

	修正(REVISION)	
编号(NO.)	描述(DESCRIPTION)	日期(DATE)
00	做樣品更新規格書(Build the sanple and update the spec.)	2022.04.28

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