

1.0 Reference and Address			
Report Number	22100570HKG-001	Original Issued: 16-Dec-2022	Revised: None
Standard(s)	Electric Fans [UL 507:2017 Ed.10+R:27May2020] Fans and Ventilators>Expires on: 01Jan2024< [CSA C22.2#113:2015 Ed.10+U1]		
Applicant	Zhongshan Hong Zhe Electric Co Ltd	Manufacturer 1	ZHONGSHAN HONG ZHE ELECTRIC Co.,Ltd.
Address	No. 24, Yihui Second Road, Henglan Town, Zhongshan City, Guangdong	Address	No. 24, Yihui Second Road, Henglan Town, Zhongshan City, Guangdong
Country	China	Country	China
Contact	Li Shunping	Contact	Li Shunping
Phone	13928180211	Phone	13928180211
FAX	NA	FAX	NA
Email	3155858905@qq.com	Email	3155858905@qq.com

2.0 Product Description	
Product	Ceiling fan
Brand name	ZHONGSHAN HONG ZHE ELECTRIC Co.,Ltd. HONG ZHE
Description	The product covered by this report are Ceiling Fan, intended for household, dry location & indoor use only, permanent installation by mounting to a standard ceiling outlet box or building structure
Models	EFPT1106, EFPT1023, EFPT1093, EFPT1089, EFPT1148, RSDP2036, PDLH1011, PDLH1025, PDLH1096, PDLH1112, YYWE1015, YYWE1036, YYWE1001, YYWE1012, YYWE1034, FZ146-T, FZ116-S, 2300055001-C, FZ113-S, FZ115-A.
Model Similarity	All models are identical, except for Light cover and Rotate Frame.
Ratings	120V~, 60Hz, fan: 60W, LED Light: 42W Max.
Other Ratings	NA

3.0 Product Photographs

Photo 1 - External view of model FZ116-S



Photo 2 - External view of model FZ116-S



3.0 Product Photographs

Photo 3 - Internal view of model FZ116-S

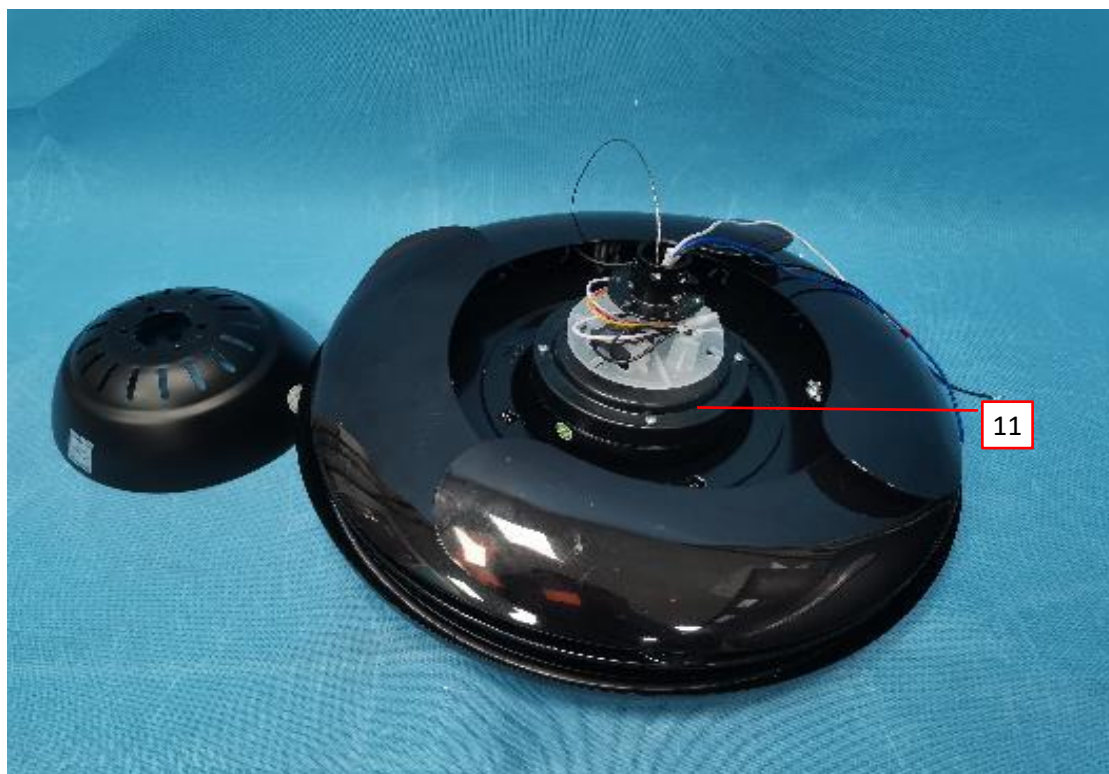
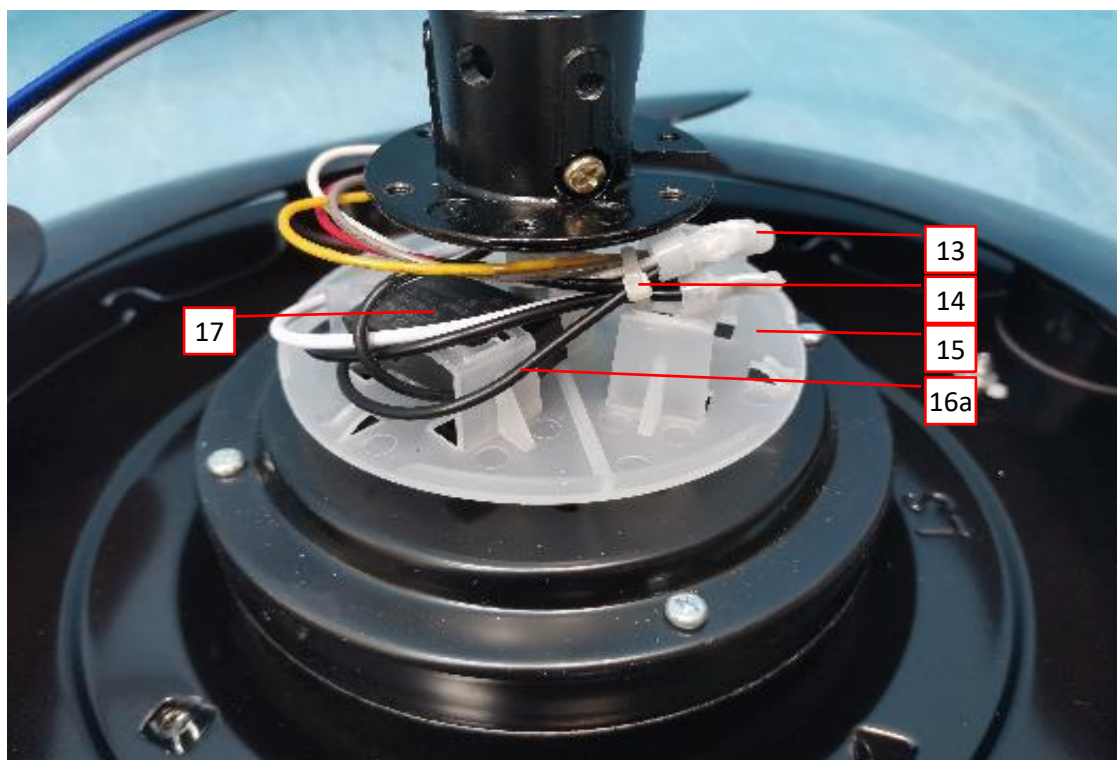


Photo 4 - Internal view of model FZ116-S



3.0 Product Photographs

Photo 5- Grounding construction for model FZ116-S, also represents for all other models.

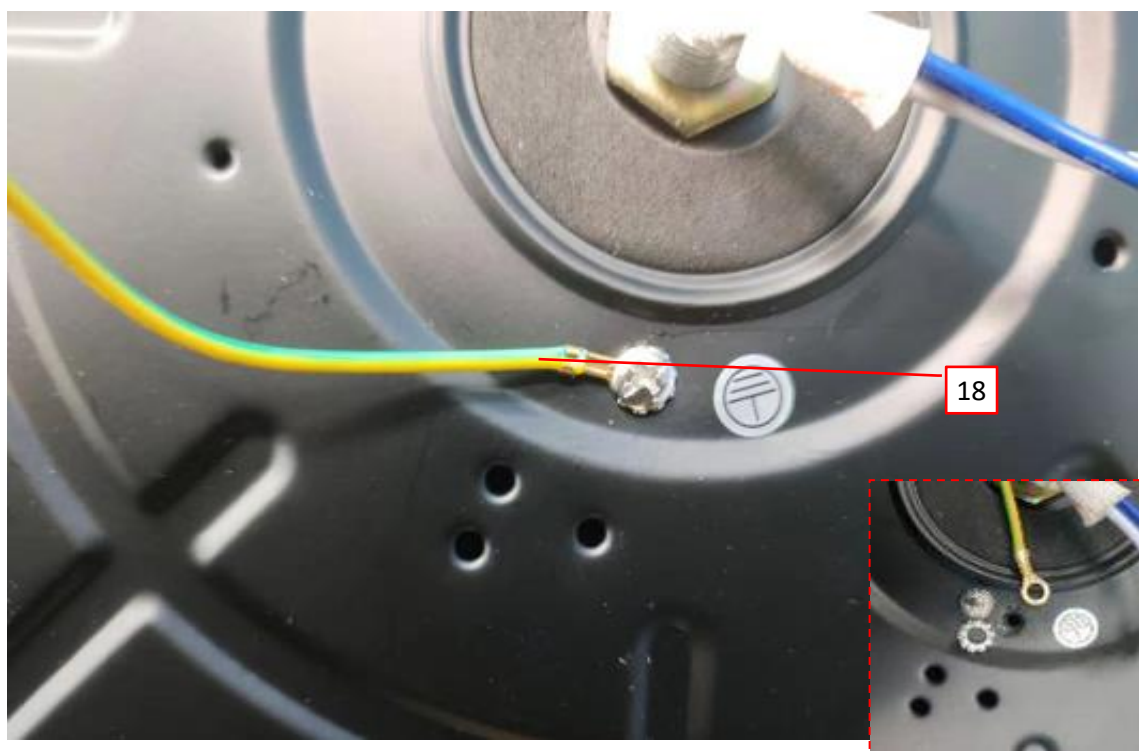
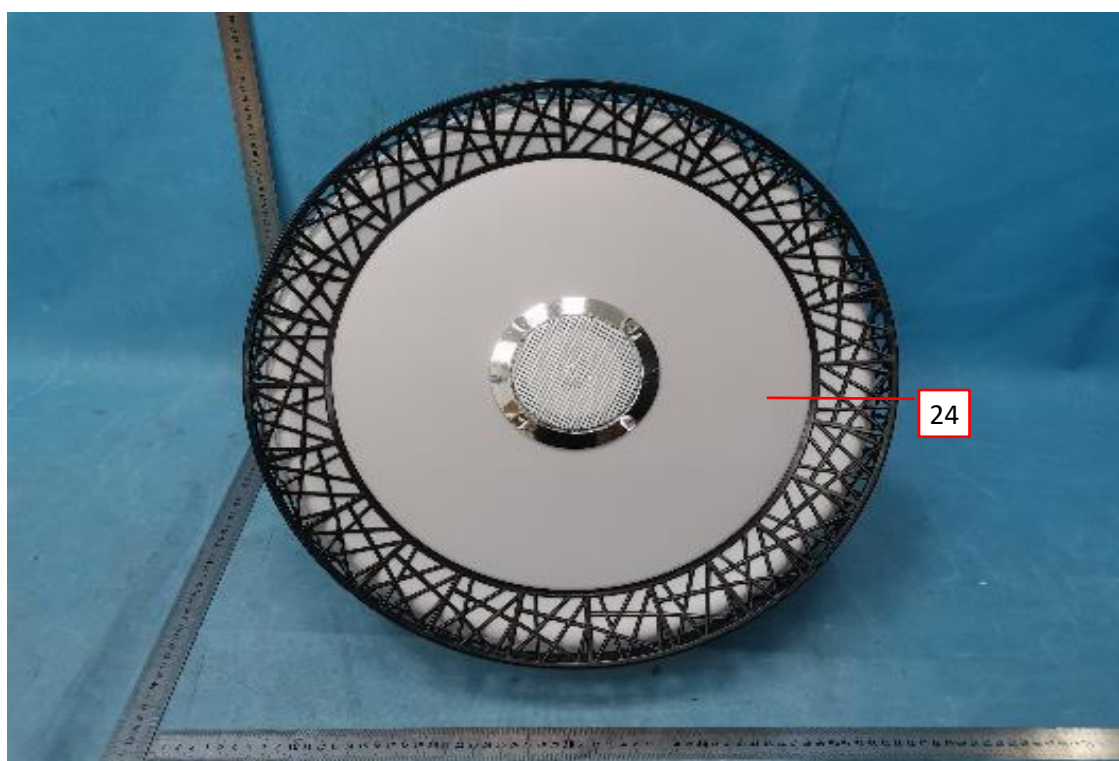


Photo 6 - External view of model FZ116-S



3.0 Product Photographs

Photo 7 - Internal view of model FZ116-S

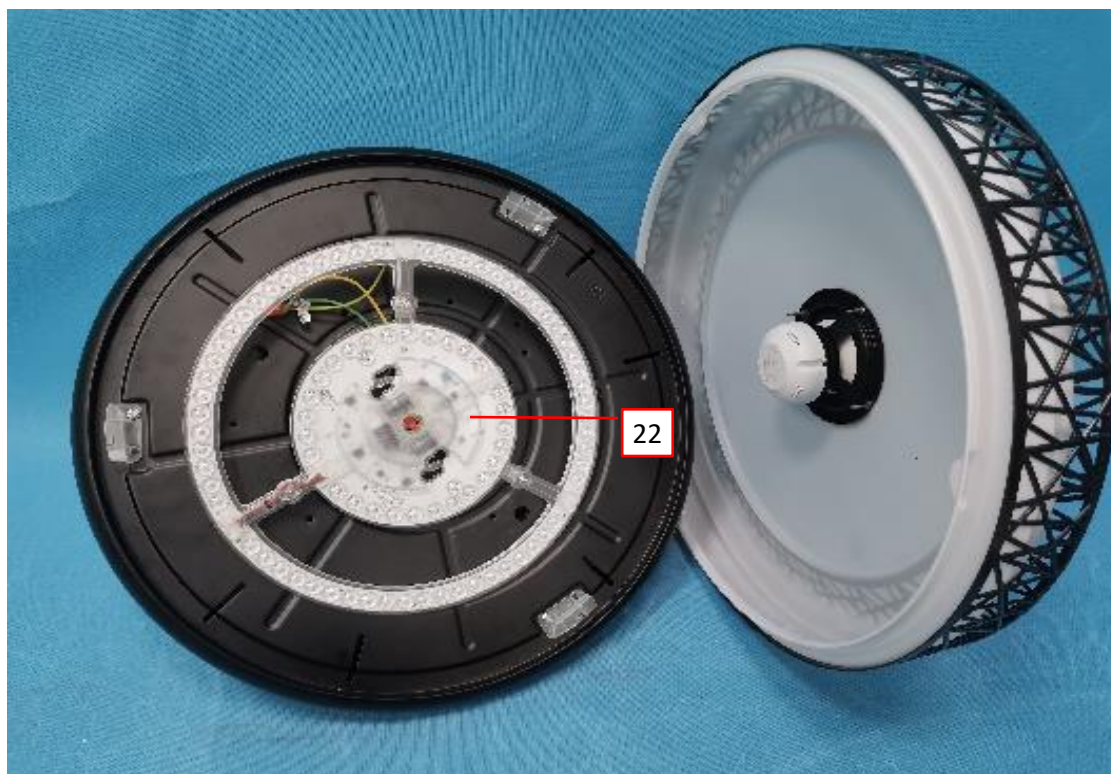
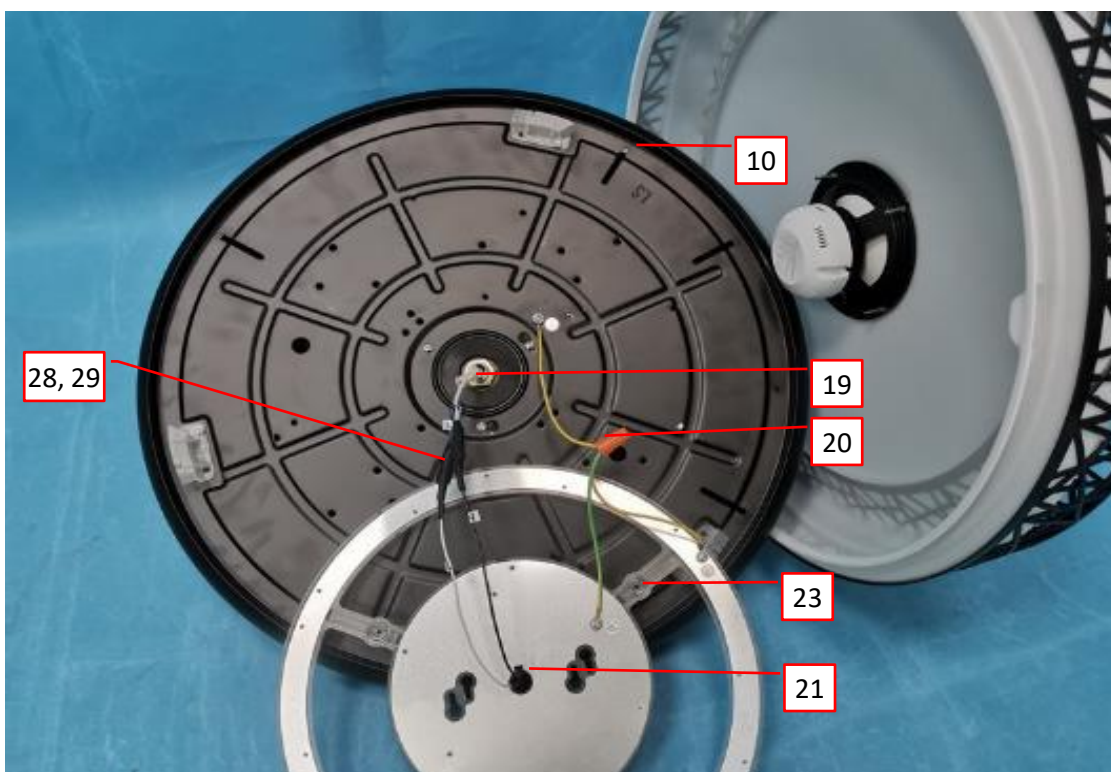


Photo 8 - Internal view of model FZ116-S



3.0 Product Photographs

Photo 9 - Internal view of model FZ116-S

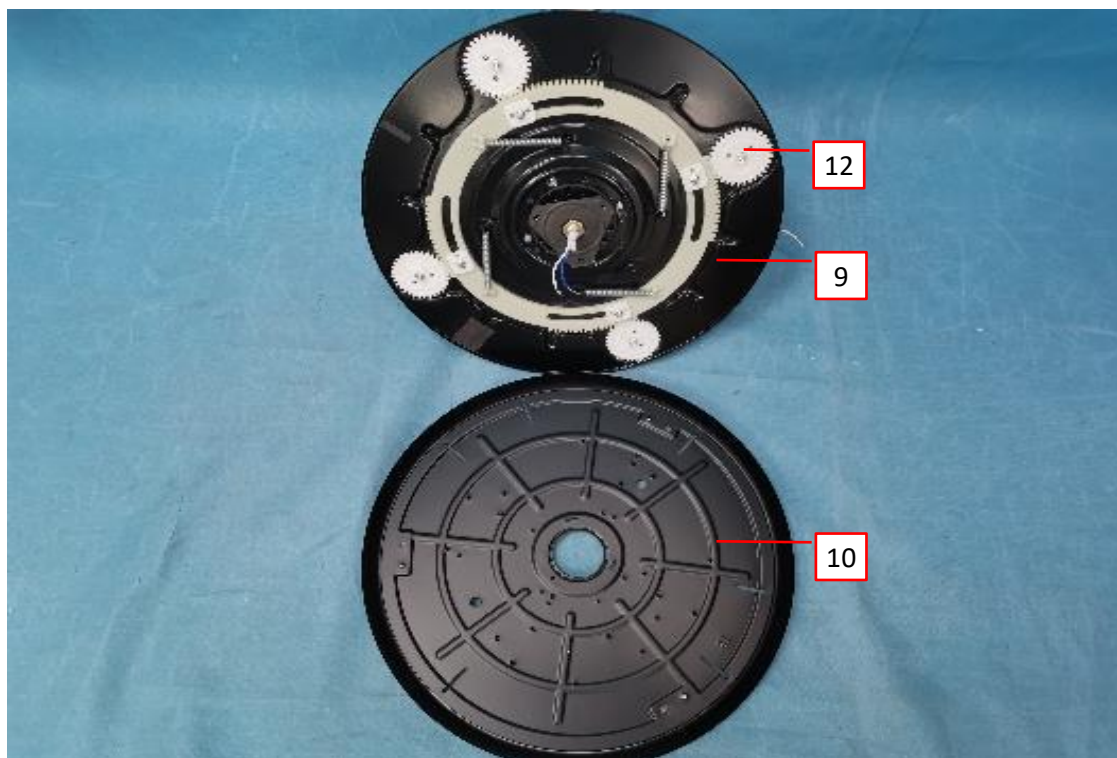
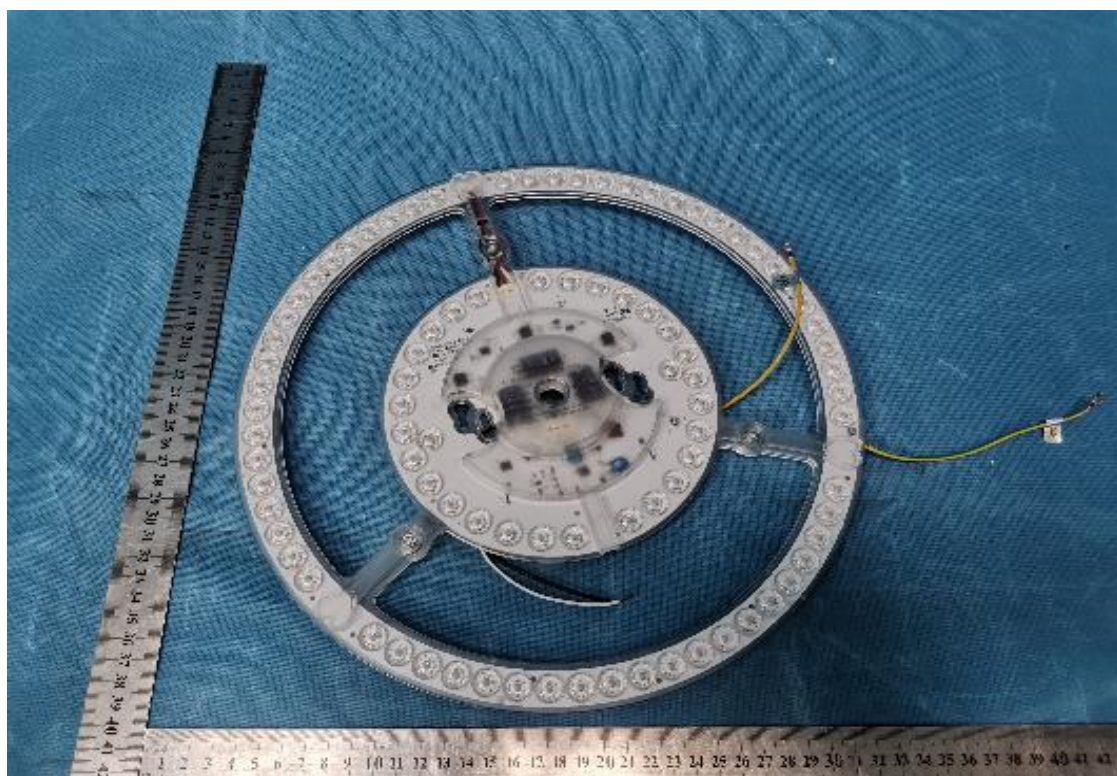


Photo 10 - External view of LED module for all models.



3.0 Product Photographs

Photo 11 - External view of LED module for all models.



Photo 12 - External view of motor type LQ15312 for all models.



3.0 Product Photographs

Photo 13 - Internal view of motor type LQ15312 for all models



Photo 14 - Contruction with additional steel rope support of all models for cETLus and cETL



3.0 Product Photographs

Photo 15 - Contruction with additional steel rope support of all models for cETLus and cETL

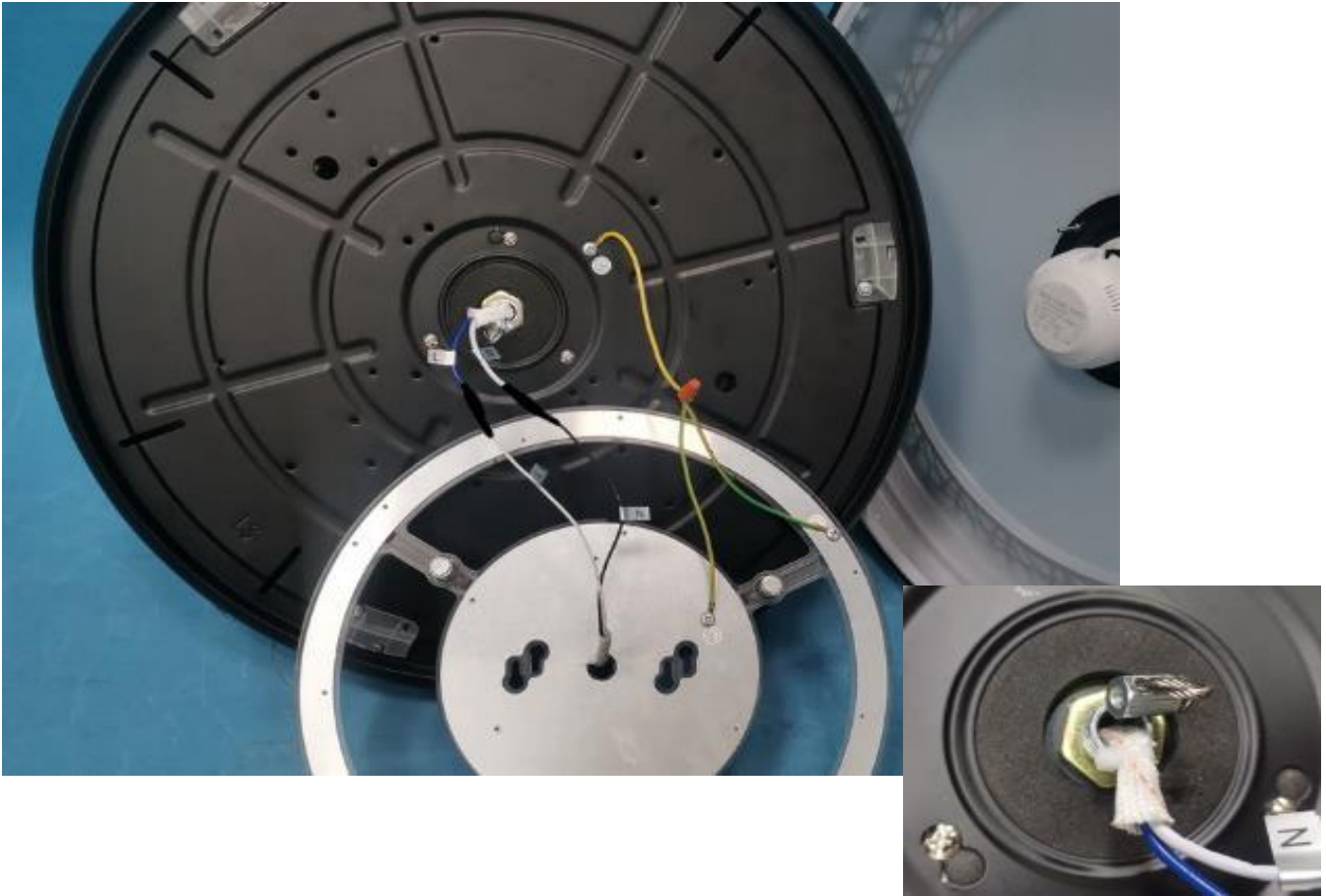


Photo 16- External view of model EFPT1106



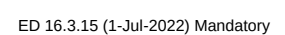
3.0 Product Photographs

Photo 17 - External view of model EFPT1106



Photo 18 - Internal view of model EFPT1106.





3.0 Product Photographs

Photo 21 - Internal view of model EFPT1023.



Photo 22- Internal view of model EFPT1093



3.0 Product Photographs

Photo 23- Internal view of model EFPT1093.



Photo 24 - External view of model EFPT1093



Photo 25 - External view of model PDLH1011



3.0 Product Photographs

Photo 27 - External view of model PDLH1011



Photo 28 - External view of model PDLH1025.



3.0 Product Photographs

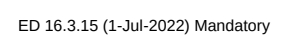
Photo 29 - Internal view of model PDLH1025



Photo 30 - Internal view of model PDLH1025



Photo 31 - External view of model FZ146-T



3.0 Product Photographs

Photo 33 - External view of model FZ146-T.



Photo 34 - Internal view of model FZ113-S.



3.0 Product Photographs

Photo 35 - External view of model FZ113-S



Photo 36 - External view of model FZ113-S.



3.0 Product Photographs

Photo 37 - Internal view of model FZ115-A.



Photo 38- Internal view of model FZ115-A.



3.0 Product Photographs

Photo 39 - External view of model FZ115-A.

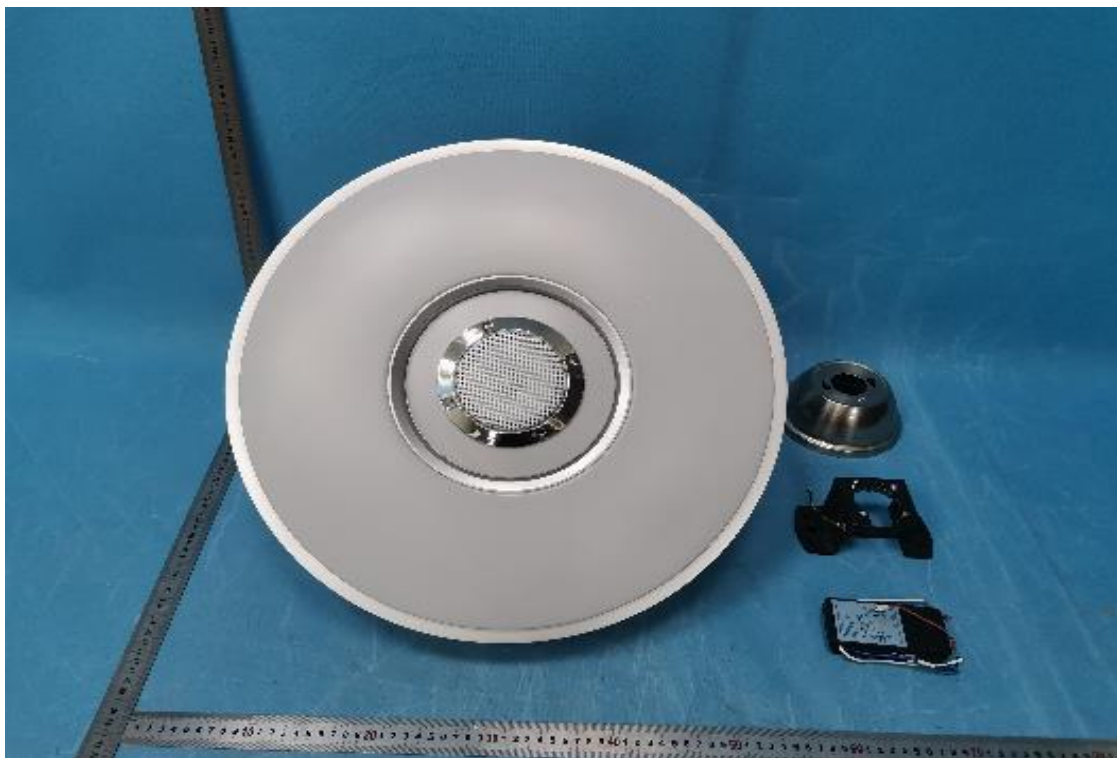


Photo 40 - External view of model EFPT1148



3.0 Product Photographs

Photo 41 - External view of model PDLH1096



Photo 42 - External view of model PDLH1112



3.0 Product Photographs

Photo 43 - External view of model RSDP2036



Photo 44 - External view of model YYWE1001



3.0 Product Photographs

Photo 45 - External view of model YYWE1012



Photo 46 - External view of model YYWE1015



3.0 Product Photographs

Photo 47 - External view of model YYWE1034



Photo 48 - External view of model YYWE1036



3.0 Product Photographs

Photo 49 - External view of model 2300055001-C



Photo 50 - External view of model EFPT1089



4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1	1	Mounting Bracket	Various	Painted Steel	2.0mm thick minimum.	NR
1	2	Canopy			0.6mm thick.minimum.	NR
1,2	3	Mounting Ball			2.2mm thick.minimum.	NR
1,2	4	Downrod			1.7mm thick.minimum.	NR
1	5	Longer Downrod			1.7mm thick.minimum.	NR
2	6	Bolt & pin Cover			0.6mm thick.minimum.	NR
2	7	Motor Cover			0.6mm thick.minimum.	NR
2	8	Fan Blade	NINGBO LG YONGXING CHEMICAL CO LTD	PC, type LUPOY SC-210(Z)	Rated 94-HB, 80°C minimum. 2.1mm thick.	cURus
9	9	Blade Holder	Various	Stainless steel	Min. 0.8mm thickness.	NR
5,8, 15	10	LED module Holder	Various	Painted Steel	0.6mm thick.minimum.	NR
3, 12, 13	11	AC Motor	Jiangmen Ganfa Fan Processing Motor Factory	LQ15312	Rated 120V, 60Hz, 60W. No load speed: 2300rpm; No load current: 0.3A.	See 5.0
9	12	Gear	Various	Thermoplastic	Rated 94-HB, 50°C, 0.75mm thick minimum.	cURus
4	13	Close-end Connector	Various	Connectors	Rated 250V, 5A, 85°C, 94V-2, suitable for wire size #24-#18 AWG.	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
4	14	Cable tie	Various	Nonmetallic Cable Ties Investigated to ANSI/UL 62275, CAN/CSA-C22.2 No. 62275	Rated 94V-2, 120°C minimum.	cULus
4	15	Capacitor bracket	Various	Thermoplastic	Rated 94-HB, 80°C minimum.	cURus
1	16	Lead wire	Various	AWM	Rated 600V, 105°C minimum. VW-1. #18AWG. Free length not less than 152.4mm for field wiring connection.	cURus
4	16a	Internal wire	Various	AWM	Rated 600V, 105°C minimum, VW-1, 18-22 AWG.	cURus
4	17	Motor Running Capacitor	FOSHAN CITY SHUNDE XUNDE ELECTRICAL AND ELECTRONIC CO LTD	Dry metallized-polypropylene film capacitor, type CBB61	Rated 300Vac, 50/60Hz, 70°C, 3μF ± 5%.	cURus
5	18	Grounding Wire	Various	AWM	Rated 600V, 105°C, #18 AWG minimum, VW-1. Secured to Blade Holder (item 9), LED module Holder (item10) & LED module (item 22) by 4.8mm diameter screw with lock washer.	cURus
8	19	Fiber glass sleeving	Various	Grade A silicone uncoated fiberglass sleeving	Rated 600V, 200°C. VW-1, 1.0 mm thick, provided to cover wire.	cURus
8	20	Spring Screw Type Connector	Various	Splicing wire connector	Rated 300V, 105°C, suitable for wire size #18-#22AWG. max. 3#16, min. 2#22,	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
8	21	Fiber glassss sleeving	Various	Grade A silicone uncoated fiberglass sleeving	Rated 600V, 200°C. 1.0 mm thick, provided to LED module wire.	cURus
7, 10	22	LED module	CADJA Electronic Co., Ltd	KCJKS42X2W-310 GGU-3040	Rated 120VAC, 60Hz, max.42W. Secured to metal enclosure by 3 magnets. Provided with 5VA Lens (mfg: HUIZHOU WOTE ADVANCED MATERIALS CO LTD, model: 3001)	cETLus
8	23	Magnet	Various	Various	Neodymium magnet, 1.0mm thick. 3000μT mimimum.	NR
6	24	Light cover	Various	Thermoplastic	Rated 94-HB, 80°C, 0.75mm thick minimum. For models EFPT1106, EFPT1023, YYWE1001, FZ146-T, FZ116-S, FZ115-A. Fixed by Rotate frame.	cURus
6	24a	Rotate frame	Various	Thermoplastic	Rated 94-HB, 80°C, 1.0mm thick minimum. 3 provided. Lock into the holder (item 10)	cURus
6	24a-1	Light cover	Various	Glass	1.5mm thick minimum. For models EFPT1148, POLH1096, YYWE1012.	NR
6	24b	Light cover Frame	Various	Thermoplastic	Rated 94-HB, 80°C, 0.75mm thick minimum. Secured to holder (item 10) by screws. For all models, except EFPT1106, EFPT1023, YYWE1001, FZ146-T, FZ116-S, FZ115-A, EFPT1148, POLH1096, YYWE1012. For mdoel EFPT1093, PDLH1011, PDLH1025, provided with decorative crystal which secured to the frame by steel ring.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1	25	Ceiling Fan Controller	San Sheng (Zhongshan) Electronic Technology Co., Ltd	RC-R26	Rated 120Vac, 60Hz, Max motor amps: 1 A. Max light watts: 180W.	cETLus
14	26	Secondary Mounting Means	Various	Steel Wire	1.5mm in wire diameter. (For cETL or cETLus)	NR
1	27	Field Wire Connector	Various	Splicing wire connector	Rated 600V, 105°C, suitable for wire size #14-#22AWG. max. 4#16 with 1#20. min. 1#18 with 1#20. (3 Provided)	cURus
8, 15	28	Male & Female Connectors (Not shown)	Various	Wire connectors	Suitable for wire size: #16-18AWG.	cURus
8, 15	29	Heat shrinkable tube	Various	Heat shrinkable flexible Polyolefin tubing	Rated 300V, 125°C. VW-1. Fully cover the male and female connector, extended at least 6.4mm from the connectors.	cURus
1	30	Marking Label (not shown)	Various	Pressure-sensitive printed labels	Rated 150°C minimum. Suitable for Acrylic paint or Stainless steel surface. Affixed to Canopy (item 2).	UR
NOTES: 1) Not all item numbers are indicated (called out) in the photos, as their location is obvious. 2) "Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used. 3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.						

5.0 Critical Unlisted CEC Components

INSULATED COIL

Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
3, 12,13	11	AC Motor	Jiangmen Ganfa Fan Processing Motor Factory	LQ15312
Electrical Rating:		Rated 120V, 60Hz, 60W. No load speed: 2300rpm; No load current: 0.3A.		Insulation class A
Component Standard used:		UL 1004-1:2012 Ed.2+R:24Aug2017 UL 1004-2:2014 Ed.2+R:06Feb2015 CSA C22.2#100:2014 Ed.7+U1		

MATERIALS LIST (refer to illustration 5 for assembly drawing)

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Main Winding	Various	Polyurethane coated copper wire	Rated 155°C.
Auxiliary Winding	Various	Polyurethane coated copper wire	Rated 155°C.
Slot liners	DUPONT TEIJIN FILMS U S L P	PET, type Mylar S-PV5W(b)	Rated 94VTM-2, HWI=0, HAI=4, 105°C, 0.2mm thick minimum.
Slot Wedge	DUPONT TEIJIN FILMS U S L P	PET, type Mylar S-PV5W(b)	Rated 94VTM-2, HWI=0, HAI=4, 105°C, 0.2mm thick minimum.
Insulation Paper	DUPONT TEIJIN FILMS U S L P	PET, type Melinex 510	Rated 94VTM-2, HWI=4, HAI=0, 105°C, 0.25mm thick minimum.
Leads Wire	Various	AWM	#22 AWG. Rated 300V, 105°C minimum.
Cable Tie	Various	Nonmetallic Cable Ties Investigated to ANSI/UL 62275, CAN/CSA-C22.2 No. 62275	Rated 94V-2, 120°C minimum.
Fiber Tube	Various	Grade A silicone coated fiberglass sleeving	Rated 600V, 200°C minimum, VW-1. Sleeve on lead wire connections.

WINDING(S) RESISTANCE

Winding Designation	Wire Size (AWG or mm ²)	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:
Main Winding	0.21	Polyurethane coated copper wire	290	NA	NA	163
Auxiliary Winding	0.21	Polyurethane coated copper wire	300	NA	NA	136

VERIFICATION PROCESS

Frequency: Annual	Test Site: CEC	Number of samples to test: 1	
Test Name	Test Parameters		
Winding resistance	See resistance per winding above.		
Dielectric Strength	Apply voltage Between	Test Voltage	Test Time
	Magnet wire and dead metal parts	1000V	60s

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Spacing - In primary circuits, 1.6 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 1.6mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits. Refer to Illustration 1 for areas to verify.
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - All exposed dead-metal parts and all dead-metal parts within the enclosure that are exposed are connected to the grounding lead of the power supply cord or the equipment grounding terminal.
6. Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets.
7. Schematics - Refer to Illustration No. 2 for schematics requiring verification during Field Representative Inspection Audits.
8. Markings - The product is by labelling (Refer to item 30 of section 4.0) on the Canopy as follows:
 - applicant's name
 - model number
 - electrical ratings (e.g. volts, wattage & frequency)
 - date code system
 - IMPEDANCE PROTECTED
 - PROTECTION PAR IMPÉDANCERefer to Illustration No. 3 for details.
9. Cautionary Markings - The product is by labelling (Refer to item 30 of section 4.0) on Canopy as follows:
 - refer to Illustration No. 3 for details.

6.0 Critical Features

10. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer.
"READ AND SAVE THESE INSTRUCTIONS"
"WARNING - To Reduce The Risk Of Personal Injury, Do Not Bend The Blade Brackets When Installing The Brackets, Balancing The Blades, Or Cleaning The Fan. Do Not Insert Foreign Objects In Between Rotating Fan Blades."
"WARNING - To Reduce The Risk Of Fire, Electric Shock, Or Personal Injury, Mount Directly To A Structural Framing Member Or To An Outlet Box Marked acceptable for fan support of 15.9 Kg (35 lbs) or less. For Outlet Box Mounting, Use Mounting Screws Provided With The Outlet Box."
or equivalent wordings, which shall be more prominent than the general text used in the manual, booklet or the like.
Note: The words "READ AND SAVE THESE INSTRUCTIONS" and "WARNING": shall be more prominent than the general text but not less than 2.4 mm is height.
(Refer to illustration Nos. 5-5.4 for details.)
11. Carton Marking - A carton (individual marketing container) for the appliance is marked with
"WARNING: To reduce the risk of fire, electric shock, or personal injury. The Fan in This Box May be Either Directly Supported From A Structural Framing Member Of A Building And / Or May be Mounted To An Outlet Box marked acceptable for fan support of 15.9 Kg (35 lbs) or less. Most outlet boxes commonly used for the support of lighting fixtures are not acceptable for fan support and may need to be replaced. Consult a qualified electrician if in doubt.
AVERTISSEMENT : Pour réduire le risque d'incendie, d'électrocution ou de blessure. Le ventilateur dans cette boîte peut être soit directement pris en charge par un membre de la charpente structurelle d'un bâtiment et/ou peut être monté sur une boîte de sortie marquée acceptable pour le support du ventilateur de 15,9 kg (35 lb) ou moins. La plupart des boîtes de sortie couramment utilisées pour le support des appareils d'éclairage ne sont pas acceptables pour le support des ventilateurs et peuvent devoir être remplacées. Consultez un électricien qualifié en cas de doute."
The marking is located on at least one outside surface other than the bottom and appear in lettering not less than 6.4mm high.
12. Logo Dependent Marking - The required marking is dependent on the specific ETL logo applied to the product as authorized by the Authorization to Mark. In addition to the required marking in items 9 and 10 above, all products bearing the cETLus logo will be marked in letters not less than 2.4mm high (Refer to Illustrations 8 & 9 for details.)
13. Production Control - Separate production lines for different versions. Quality checks will be performed for correspondence between Rating label logo and the specific differences, according to Illustration 1.

7.0 Illustrations

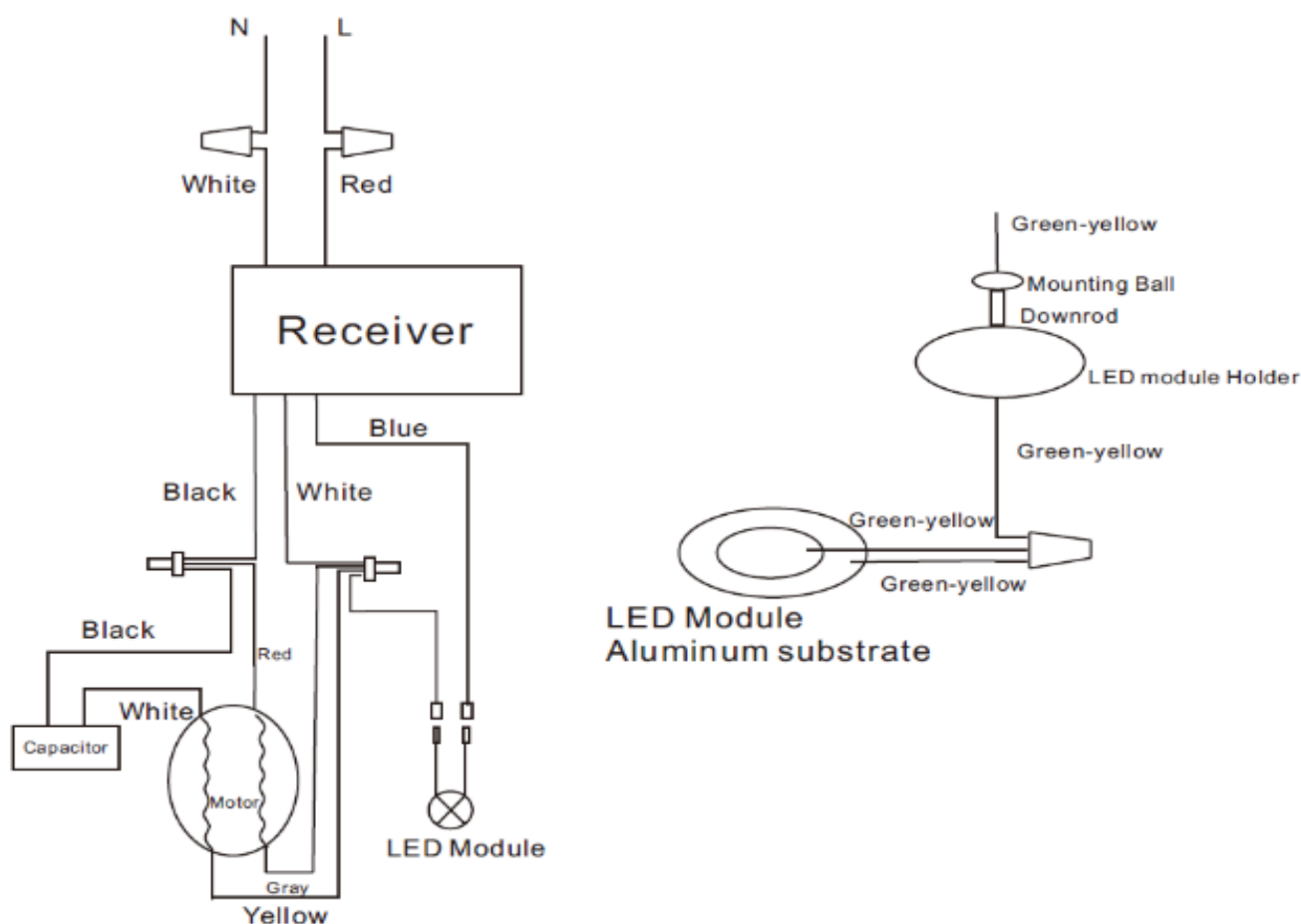
Illustration 1 - Table of version differences per model number.

Section	Item	Specific Difference	Logo Restriction
4	26	Secondary Mounting Means	cETL or cETLus
6	8,9	Cautionary text - English and French	cETL or cETLus
6	8,9	Cautionary text - without specified French text	ETLus only

Illustration 1a - Spacings

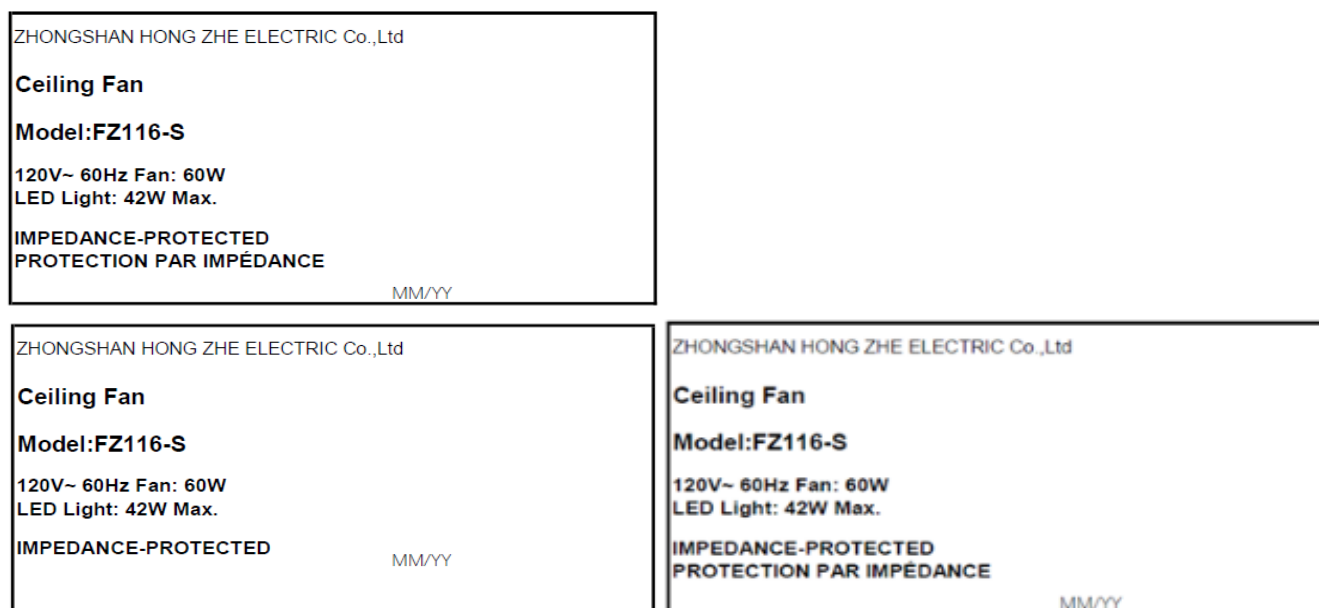
Points of measurement	Limit
Between motor windings and lamination	$\geq 2.4\text{mm}$
Between opposite polarity	$\geq 1.6\text{mm}$
Between live part and accessible metal part	$\geq 1.6\text{mm}$
Between live part and accessible metal part (For lamp only)	$\geq 3.2\text{mm}$ (through air)
	$\geq 6.4\text{mm}$ (over surface)

Illustration 2 - Circuit Diagram



7.0 Illustrations

Illustration 3 - Markings



Above labels also represent all model, except model name, fan power and LED light power refer to Section 2.0.

Notes:

1. Date Code "MMYY": "MM" represents month of manufacture, "YY" represents year of manufacture.

CAUTION	WARNING
To Reduce The Risk Of Injury To Persons, Install Fan So That The Blade Is At Least 3.05(10 feet) Meters Above The Floor.	MOUNT ONLY TO AN OUTLET BOX MARKED ACCEPTABLE FOR FAN SUPPORT.
ATTENTION	AVERTISSEMENT
Pour réduire les risques de blessures, installez le ventilateur de façon à ce que la pale soit au moins à 3,05 mètres (10 pieds) du sol.	ASSEMBLER UNIQUEMENT À UNE BOÎTE DE SORTIE JUGÉE ACCEPTABLE POUR RETENIR UN VENTILATEUR.

Above marking marked on the Canopy.

WARNING: To reduce the risk of fire, electric shock, or personal injury, mount to outlet box marked acceptable for fan support of 15.9 Kg (35 lbs) or less and use mounting screws provided with the outlet box and/or Support Directly From Building Structure. Most outlet boxes commonly used for the support of lighting fixtures are not acceptable for fan support and may need to be replaced. Consult a qualified electrician if in doubt.

AVERTISSEMENT : Pour réduire les risques d'incendie, d'électrocution ou de blessures, installez l'appareil sur une boîte de sortie marquée comme étant acceptable pour le support d'un ventilateur de 15,9 kg (35 lb) ou moins et utilisez les vis de montage fournies avec la boîte de sortie et/ou le support direct de la structure du bâtiment. En cas de doute, consultez un électricien qualifié.

Above marking marked on the downward facing side of the mounting bracket.

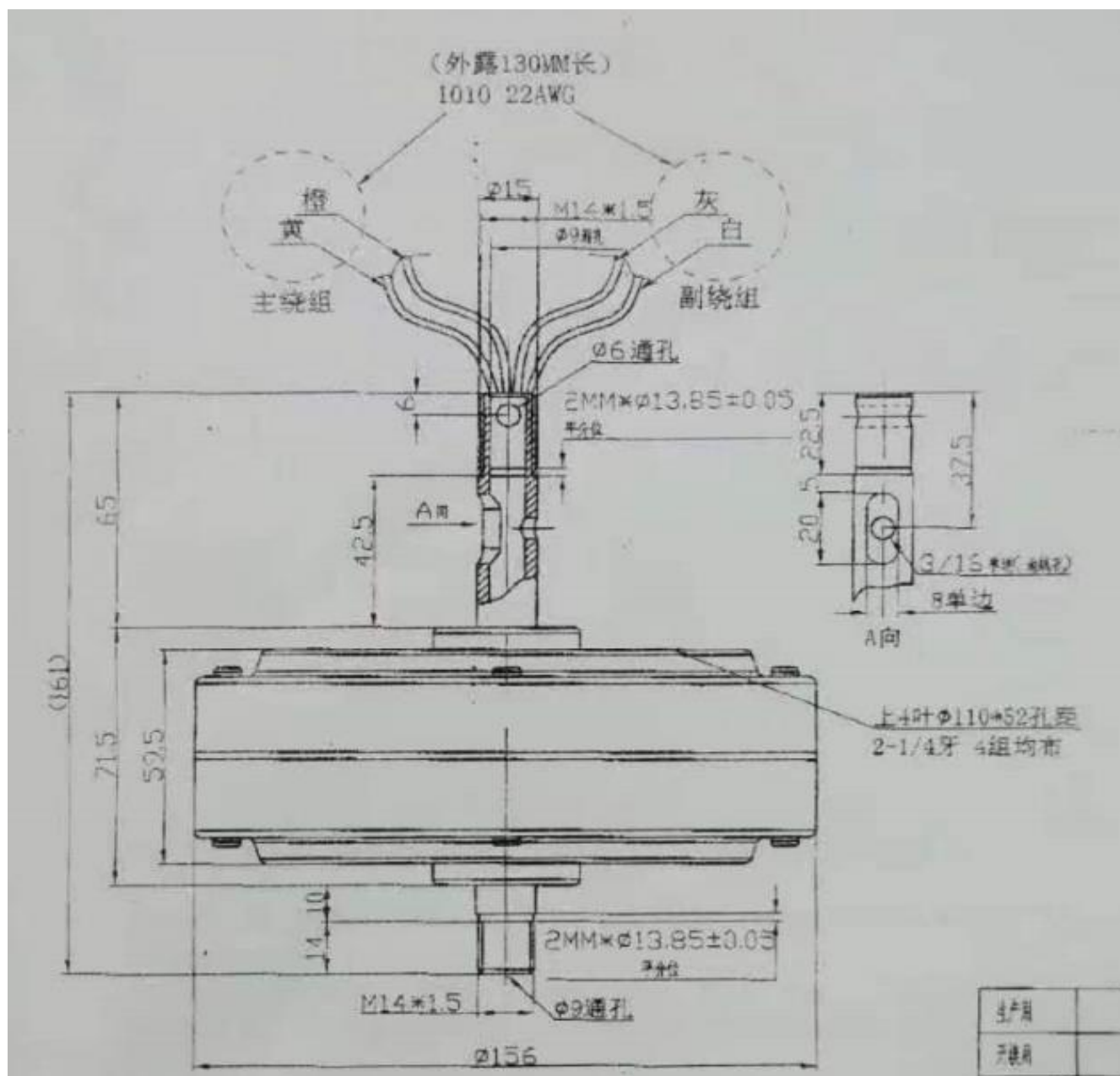
WARNING – Support Directly From Building Structure

AVERTISSEMENT - Soutien direct de la structure du bâtiment

Above marking marked on the Canopy.

7.0 Illustrations

Illustration 4 - Drawing of AC Motor model



7.0 Illustrations

Illustration 5 - Instruction Manual

READ AND SAVE THESE INSTRUCTIONS

WARNING: To Reduce The Risk Of Electric Shock, Disconnect The Electrical Supply Circuit To The Fan Before Installing Light Kit.

1. To ensure the success of the installation, be sure to read the instructions and review the diagrams thoroughly before beginning.
2. To avoid possible electric shock, be sure electricity is turned off at the main power box before wiring. All electrical connections must be made in accordance with local codes, ordinances and/or the ANSINFP 70. If you are unfamiliar with the methods of installing electrical wiring and products, secure the services of a qualified and licensed electrician as well as someone who can check the strength of the supportive ceiling members and make the proper installations and connections.
3. Make sure that your installation site will not allow rotating fan blades to come in contact with any object. Blades should be at least 3.05 M(10 feet) from floor when fan is in operation.
4. Blades should be attached after motor housing is hung and in place. Fan motor housing should be kept in carton until ready to be installed to protect its finish. If you are installing more than one ceiling fan, make sure that you do not mix fan blade sets.
5. After making electrical connections, spliced conductors should be turned upward and pushed carefully up into outlet box. The wires should be spread apart with the grounded conductor and the equipment - grounding conductor on one side of the outlet box and the " HOT " wires on the other side.
6. After fan is completely installed, check to make sure that all connections are secure to prevent fan from falling and/or causing damage or injury.
7. The fan can be made to work immediately after installation - the bearings are adequately charged with grease. So that, under normal conditions, further lubrication should not be necessary.
8. This fan is suitable for indoor location use.
9. To Reduce The Risk Of Fire Or Electric Shock, please use the Fan Speed Control Device provided.
10. Disconnect the appliance from the power supply before servicing.
11. CAUTION: To Reduce The Risk Of Electric Shock, Disconnect The Electrical Supply Circuit To The Fan Before Installing Light Kit.
12. To Reduce The Risk Of Personal Injury, Do Not Bend The Blade Brackets When Installing The Brackets, Balancing The Blades, Or Cleaning The Fan. Do Not Insert Foreign Objects In Between Rotating Fan Blades.

Send Email to 3155858905@qq.com obtain a printed copy of the material contained in electronic format.

7.0 Illustrations

Illustration 5.1 - Instruction Manual (Con't)

Installation steps and instructions

1. Components list

Part Name	Part Picture	Part Qty	Part Name	Part Picture	Part Qty
Bracket		1 PC	Led Board		1 PC
Down Rod		1 PC	Remote Control		1 PC
Up Canopy		1 PC	Lamp Shade		1 PC
Bolt & pin cover		1 PC	Spare Parts		1 PC
Main Body		1 PC	Longer Down Rod		1 PC

2. Mounting bracket installation

WARNING: To Reduce The Risk Of Personal Injury, Do Not Bend The Blade Brackets When Installing The Brackets, Balancing The Blades, Or Cleaning The Fan. Do Not Insert Foreign Objects In Between Rotating Fan Blades.

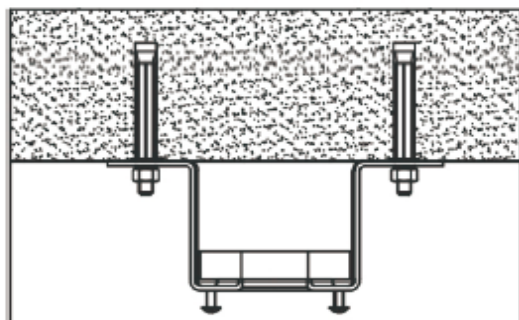
WARNING – To Reduce The Risk Of Fire, Electric Shock, Or Personal Injury, Mount To Outlet Box Marked Acceptable for Fan Support of 15.9kg(35 lbs) or less And Use Mounting Screws Provided With The Outlet Box and/or Support Directly From Building Structure.

Model	Weight(kg)	Model	Weight(kg)	Model	Weight(kg)
EFPT1106	7.4	EFPT1148	8.8	PDLH1096	8.8
EFPT1023	7.4	RSDP2036	14.2	PDLH1112	8.5
EFPT1093	14.2	PDLH1011	14.3	YYWE1015	12.7
EFPT1089	14.7	PDLH1025	12.3	YYWE1036	8.5
YYWE1001	7.4	YYWE1012	8.8	YYWE1034	10.6
FZ146-T	8.6	FZ116-S	7.4	2300055001-C	8.3
FZ113-S	8.8	FZ115-A	8.2		

7.0 Illustrations

Illustration 5.2 - Instruction Manual (Con't)

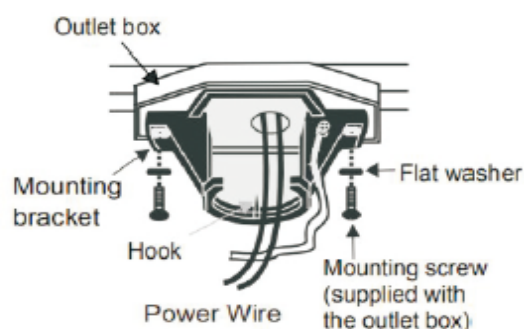
(Fig.2)



(1) . Concrete ceiling: Drill two holes with an appropriate depth by a drilling bit with dia. at 8mm, and insert two pieces expansion screws in the holes, then fix the hanger bracket into the expanding screws with the wood screws and tighten it by the nuts of the expansion screws.(Fig.2)

(3) Pass the power wires through the center hole in the mounting bracket as shown in Fig. 4.

(4) Fix the mounting bracket to the ceiling outlet box with the screws and washers.



Clean And Care

To clean, wipe fixture with soft cloth. Spray from chemical cleaners can discolor the finish of fixture. Do not use scouring pads, powders, steel wool or abrasive paper to clean this fixture.

Ordering Parts

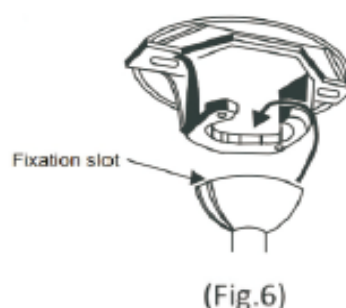
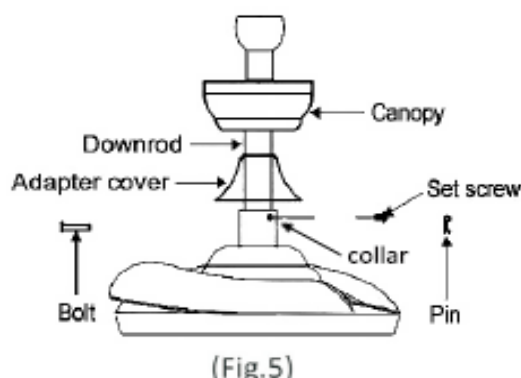
Keep this manual for future reference, and in case replacement parts are needed. Available parts can be ordered from place of purchase. Use exact wording from diagrams when ordering parts.

7.0 Illustrations

Illustration 5.3 - Instruction Manual (Con't)

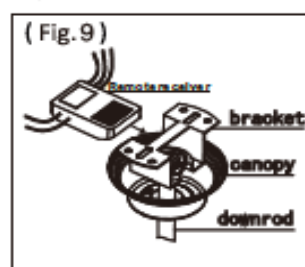
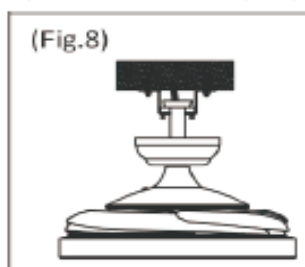
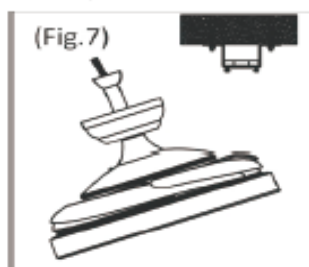
3. Light kit installation

- (1) Assemble the canopy and adapter cover as Fig. 5.
- (2) Remove the the bolt, pin and set screws from the top of the fan motor assembly.
- (3) **the wires on the motor tvead through the downrod**
- (4) Align the holes at the bottom of the downrod with the holes in the collar on top of the motor housing (Fig. 5). Carefully insert the bolt through the holes in the collar and downrod. Be careful not to jam the bolt against the wires inside the downrod. Insert the pin to the end of the bolt (Fig. 5).
- (5) Fix the downrod with set screws provided.

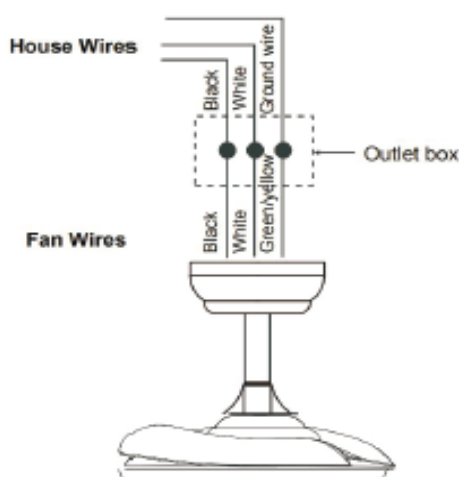


4. Hanging the Fan

- (1) Place the downrod ball into the bracket socket (Fig.6). Be sure the fixation slot is locked by the bracket.
- (2) Rotate the motor assembly until the "Check Tab" on the mounting bracket has dropped into the "Registration Slot" on the hanging ball and seat firmly (Fig.7 Fig.8 Fig.9)



5. Wiring.



NOTE: THIS FAN ONLY NEEDS ONE

SET OF INPUT WIRES (black, white and ground wire). Both of the fan and lights will be controlled by the remote controller. The wall switch is not able to control the fixture full functionally. **THIS FAN IS ONLY BEABLE TO CONNECTED ONTO ON/OFF SWITCH IF YOU HAVE ONE, BUT NOT FOR DIMMAER SWITCH.**

- (1). Connect the live wire (black) to your house live wire (black).
- (2). **Connect the wire(white) in the middle of the fan the white wire in your house.**

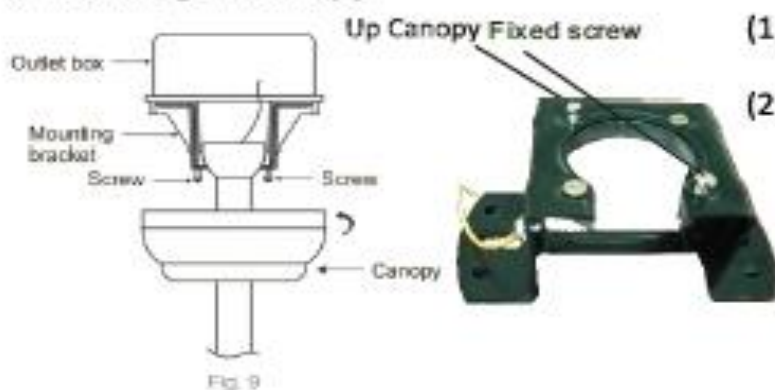
7.0 Illustrations

Illustration 5.4 - Instruction Manual (Con't)

(3). Connect the fan ground wire (from downrod, green/yellow stripe) to your house ground wire(optional).

(4). After connecting the wires, spread them apart so that the live wires are on one side of the outlet box and the middle wires are on the other side.

6. Attaching the Canopy



- (1). Insert the wires and wire connectors into the outlet box.
- (2). Slide the canopy up-to the ceiling and attach it to the mounting bracket with the screws provided. Tighten all screws.

7. Installing Bulb and Light Shade



Model No.: DS-FZ116



Step 1. Prepare the assembled fan lamp host.



Step 2. The LED light source is mounted on the chassis by means of magnets.



Step 3. Rotate frame and lock into the holder

NOTE: If any parts are damaged or lost, please contact customer service for replacement

8.0 Test Summary			
Evaluation Period	15-Oct-2022 to 13-Nov-2022		Project No. HK22100570
Sample Rec. Date	10-Oct-2022	Condition	Prototype
			Sample ID. #1 - #6
Test Location	Guangdong Future Test Services Co.,Ltd (Address: First , No.228 Min'an South Rd, Xiaolan Town, Zhongshan City, Guangdong, China.)		
Test Procedure	Testing Lab		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
The following tests were performed:			
Test Description		UL507:2017 Ed.10+R:27May2020 Clause	CSA C22.2#113:2015 Ed.10+U1 Clause
Continuity of Grounding Circuit Test		42	-
Starting Current Test		44	-
Input Test		45	-
Temperature Test		46	-
Dielectric Voltage Withstand Test		47	-
Locked Rotor Test		50	-
Humidity Conditioning Test		53	-
Tests of Switches and Controls		59	-
Static Load Test For Mounting Means		60	-
Temperature Test - 2 Volt DC Offset		87.1.1(a&b)	-
Temperature Test - Half-wave		87.1.1(c)	-
Temperature Test - Supplying Half-Wave Supply – Locked Rotor		87.1.2	-
Abnormal Operation Test - Half-wave - Locked Rotor Endurance		87.2	-
Static Load Test		91.1	-
Polymeric blades Test		91.3	-
Bonding		-	5.18
Rating		-	6.3
Temperature		-	6.4
Dielectric Strength		-	6.5
Overload		-	6.6
Starting		-	6.10
Abnormal Tmperature		-	6.11
Support Strength Tests for Pendent Ceiling Fans		-	6.20
Test Description	UL 1004-1:2012 Ed.2+R:07Aug2018 Clause	UL 1004-2:2014 Ed.2+R:06Feb2015 Clause	CSA C22.2#77:2014 Ed.8 Clause
Dielectric Voltage-Withstand Test	37	-	6.5
Locked Rotor Temperature Test	-	3	6.4
Locked Rotor Endurance Test	-	4	6.6
Test Description			UL 1598:2021 Ed.5+R:18Jun2021 & CSA C22.2#250.0:2021 Ed.5+U1 Clause
Normal Temperature Test			15
Mold stress relief			17.4
Loading			17.15
Polymeric impact			17.41
Dielectric voltage-withstand			18.1
Bonding circuit impedance			18.2
Articulate probe			18.4
Component Reviewer			Terry Lau

8.0 Test Summary		
Test Description	UL 8750:2015 Ed.2+R:23Sep2021	CSA C22.2#250.13:2020 Ed.4+U1
	Clause	Clause
	8.3	9.3
Component Reviewer		Terry Lau

8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Tang Wai Kong	Reviewed by:	Nick Lee
Title:	Engineer	Title:	Assistant Manager
Signature:	 Tang Wai Kong c/o Tang Wai Kong Intertek Testing Services Ltd. email:twai.kong@intertek.com, c-hk	Signature:	 Digitally signed by Nick Lee Location: Intertek Testing Services Hong Kong Ltd.

9.0 Correlation Page For Multiple Listings

The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.

BASIC LISTEE	Zhongshan Hong Zhe Electric Co Ltd
Address	No. 24, Yihui Second Road, Henglan Town, Zhongshan City, Guangdong
Country	China
Product	Ceiling fan

MULTIPLE LISTEE 1	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or revisions.

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

- 1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
- 2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issued by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, "Conforms to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Conforms to ANSI/UL Std. XX."

For Canadian standards, the words "Certified to CAN/CSA Standard CXX No. XX." shall be used, or abbreviated, "Cert. to CAN/CSA Std. CXX No. XX."

Can be used together when both standards are used.

If all standards on the ATM have the same standard title, the shared title or its abbreviation may be used in place of the examples above. Example: "Medical Electrical Equipment" or "MEE"; "Information Technology Equipment" or "ITE"; "Audio/Video Information And Communication Technology Equipment" or "A/V ICTE".

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.

The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

The Applicant will be notified, in writing, via the applicable contact methods, as defined in Section 1.0, when these components must be selected and sent to Component Evaluation Center (CEC) for re-evaluation.

Due to particular testing requirements, some components may be requested to be shipped to specific labs. Thus, specific shipment destination(s) for each sample will be provided in the written notification.

Managing CEC Location:

Intertek Testing Services Hong Kong Limited

ETL Component Evaluation Center

Unit H, 3/F., Garment Centre, 576 Castle Peak Road

Kowloon, Hong Kong

Attn: Sample Room

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required Tests

Dielectric Voltage Withstand Test
Grounding Continuity Test

11.1 Dielectric Voltage Withstand Test

Method

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.

The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test voltage specified below shall be applied between primary circuits and accessible dead-metal parts. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.

The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.

If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either:

- 1 - a voltmeter in the primary circuit;
- 2 - a selector switch marked to indicate the test potential; or
- 3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.

In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.

Products Requiring Dielectric Voltage Withstand Test:

<u>Product</u>	<u>Test Voltage</u>	<u>Test Time</u>
All products covered by this Report.	1000V	60 s
	or	
	1200V	1 s

11.2 Grounding Continuity Test

Method

Each cord-connected appliance having provision for grounding shall be tested, as a routine production-line test, to determine that grounding continuity exists between the ground blade of the attachment plug and the accessible

Products Requiring Grounding Continuity Test:

Product

All products covered by this Report.

The following changes are in compliance with the declaration of Section 8.1:

[illegible]