
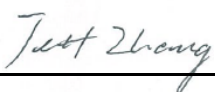




# TEST REPORT

**BUREAU  
VERITAS**

## ENERGY EFFICIENCY - ELECTRIC FAN

<b>Report Number:</b>	AAWI-EGZ-P24010031-2
<b>Date of Issue:</b>	15-Jan-2024
<b>Date of Revise:</b>	NONE
<b>Testing Laboratory/Address:</b>	Bureau Veritas Consumer Products Services (Guangzhou) Co., Ltd, Science City Branch Rm.101, G5 Building, South China Advanced Materials Innovation Park, No.31 Kefeng Rd, Guangzhou Science City, Guangzhou, 510663 China
<b>Applicant/Address:</b>	GMERIT HOLDINGS LTD The 1st of No.7, West Road, Xintang Section, Shilong Avenue, Xintang Village, Lunjiao Street, Shunde District, Foshan City Guangdong Province, P. R. China
<b>Manufacturing Site/Address:</b>	Same as the applicant
<b>Testing Location/Address:</b>	Foshan shunde guoce testing technology Co.,LTD. No.3 East Desheng Road, Shunde Daliang, Foshan, Guangdong, China
<b>Product:</b>	Fan
<b>Trade Mark:</b>	N/A
<b>Model(s):</b>	FSE40-23A, FD-40M
<b>Model Similarity:</b>	Two models are the same except the model name.
<b>Ratings:</b>	220-240V~, 50Hz, 50W
<b>Date of Sample(s) Received:</b>	6-May-2023
<b>Date of Test Started:</b>	11-May-2023
<b>Date of Test Finished:</b>	17-Jul-2023
<b>Standard(s)/Regulation(s):</b>	(EU) No 206/2012 + (EU) No 2016/2282 EN IEC 60879:2019 EN 50564:2011 EN 60704-1:2010 + A11:2012 EN IEC 60704-2-7:2020
<b>Conclusion:</b>	The product tested comply with the ErP requirements.
<b>Prepared by (name, function, signature):</b>	Mickey KONG Engineer 
<b>Approved by (name, function, signature):</b>	Jeff ZHANG Performance Manager 

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**Photos:**

**1. Nameplate showing model number and serial number (if applicable)**



Model: FSE40-23A  
Voltage: 220-240V~ 50Hz  
Rated Power: 50W  
**GMERIT HOLDINGS LTD**  
Importer: xxxxx  
Address: xxxxxxx  
Serial no.: yyWxxxxxxx  
Made in China

**2. Photo of sample.**



3. Photo of sample.



4. Photo of sample.



## Product Details

Item	Data
Model Number of Unit Under Tested	FSE40-23A
Serial Number	N/A
Condition of Sample(s)	Production
Type of Fan	Pedestal fan
Sweep size or equivalent sweep size (for bladeless fan) [mm]	400
Number of fan speed	3
Control type of fan speed	Mechanical knob
Oscillation style	Right to Left

## Critical Components

Name	Manufacturer / Trademark	Type / Model	Technical data
Fan motor	GMERIT ELECTRIC MANUFACTURING CO., LTD.	DS40CEB	220-240V ~ ; 50Hz; Class B
Motor Capacitor	FOSHAN SHUNDE BEIJIAO HUADA ELECTRIC INDUSTRIAL CO., LTD.	CBB61; CBB6-1	450V ~ ; 1.2 $\mu$ F; 40/70/21; 40/85/21; S3

**Ecodesign requirements**

Clause	Ecodesign requirements - GENERIC ECODESIGN REQUIREMENTS	Result - Remark	Verdict
2	REQUIREMENTS FOR MAXIMUM POWER CONSUMPTION IN OFF-MODE AND STANDBY MODE		Pass
(a)	From 1 January 2013 comfort fans shall fulfil the requirements on standby and off mode as indicated in Table 2.		Pass
Off mode	Power consumption of equipment in any off-mode condition shall not exceed 1,00 W	0.00	Pass
Standby mode	The power consumption of equipment in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function, shall not exceed 1,00 W		N/A
	The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display, shall not exceed 2,00 W		N/A
Availability of standby and/or off mode	Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source		Pass
(d)	From 1 January 2014 comfort fans shall correspond to requirements as indicated in Table 7		Pass
Off mode	Power consumption of equipment in any off-mode condition shall not exceed 0,50 W	0.00	Pass
Standby mode	The power consumption of equipment in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function, shall not exceed 0,50 W		N/A
	The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display, shall not exceed 1,00 W		N/A
Availability of standby and/or off mode	Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source		Pass

Clause	Ecodesign requirements - GENERIC ECODESIGN REQUIREMENTS	Result - Remark	Verdict
Power management	When equipment is not providing the main function, or when other energy- using product(s) are not dependent on its functions, equipment shall, unless inappropriate for the intended use, offer a power management function, or a similar function, that switches equipment after the shortest possible period of time appropriate for the intended use of the equipment, automatically into: — standby mode, or — off mode, or — another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source. The power management function shall be activated before delivery.		N/A
3	PRODUCT INFORMATION REQUIREMENTS		Pass
(a)	From 1 January 2013, as regards comfort fans, the information set out in points below and calculated in accordance with Annex II shall be provided on:		Pass
(i)	the technical documentation of the product		Pass
(ii)	free access websites of manufacturers of comfort fans		Pass
(b)	The manufacturer of comfort fans shall provide laboratories performing market surveillance checks, upon request, the necessary information on the setting of the unit as applied for the establishment of service values and provide contact information for obtaining such information.		Not check
(e)	Information requirements for comfort fans		Pass
	Manufacturer shall provide information as detailed in the table		Pass

**Conventional fan other than ceiling fan**

Sensor #	Radius of circle	Velocity [m/min]				Average Vel.	Circle area [m <sup>2</sup> ]	Airflow [m <sup>3</sup> /min]
		Left	Right	Up	down			
1	20	191.21	205.51	205.24	207.58	-	-	-
2	60	189.81	197.13	207.19	208.43	201.51	0.0101	2.03
3	100	204.01	190.51	206.91	184.54	198.57	0.0201	3.99
4	140	197.95	194.06	189.54	177.46	193.12	0.0302	5.82
5	180	180.25	166.57	181.45	129.35	177.08	0.0402	7.12
6	220	174.37	142.68	125.28	126.1	153.26	0.0503	7.70
7	260	154.6	112.05	86.91	94.54	127.07	0.0603	7.66
8	300	98.86	79.73	89.41	93.9	101.25	0.0704	7.13
9	340	78.09	64.93	67.6	61.31	79.23	0.0804	6.37
10	380	56.65	53.75	59.32	46.24	60.99	0.0905	5.52
11	420	47.72	28.03	28.94	38.5	44.89	0.1005	4.51
12	460	33.71	12.92	11.68	28.45	28.74	0.1106	3.18
13	500	23.82	0.81	9.12	8.9	16.18	0.1206	0.00
Total airf low [m <sup>3</sup> /min]:							61.04	
Maximum velocity [m/min]:							201.51	
Power input [W]:							46.20	

<b>Measurements</b>	
<b>Off mode</b>	
How is the mode selected or programmed	Connect the power cord to the power supply, keep the knob at station of "0".
Sequence of events to reach the mode where the product automatically changes mode	N/A
Any notes regarding the operation of the product	N/A
Ambient temp. in °C	22.5
Test voltage in V	230
Test frequency in Hz	50
Total harmonic distortion of the supply system in %	1.676
Test method	Average reading method
Power in W	0.00

### Sound power test

Item	Unit	Value									
Method	--	Parallelepiped measurement surface									
a	mm	1200									
b	mm	1225									
c	mm	2190									
S	m <sup>2</sup>	27.12									
Test setting	-	High speed									
Test voltage	V	229.9									
Test frequency	Hz	50.0									
Ambient temperature	°C	23.8									
Relative humidity	%	69.4									
Background noise level	dB	17.0									
Microphone	--	1	2	3	4	5	6	7	8	9	
L <sub>pi</sub> (Average)	dB	55.48	54.11	50.23	50.96	56.49	54.67	54.85	48.27	44.07	
10 <sup>0.1</sup> L <sub>pi</sub>	--	353183	257632	105439	124738	445656	293089	305492	67143	25527	
Averaged sound pressure level	dB(A)	53.4									
Sound power level	dB(A)	67.753									

Co-ordinates of microphone positions:

N <sup>o</sup>	x	y	z
1	a	0	0,5c
2	0	b	0,5c
3	-a	0	0,5c
4	0	-b	0,5c
5	a	b	c
6	-a	b	c
7	-a	-b	c
8	a	-b	c
9	0	0	c

Measurement surface area:

$$S = 2 (2bc + 2ac + 2ab)$$

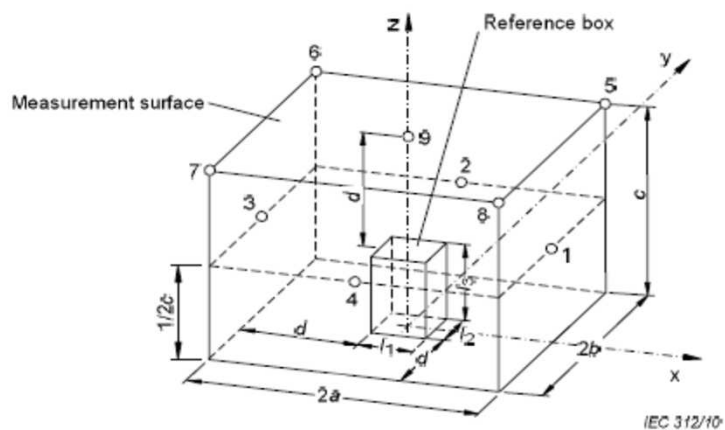


Figure 1 – Measurement surface – parallelepiped – with key microphone positions, for floor free-standing appliances

## Conclusion

Item	Symbol	Unit	Tested	Rated
Maximum fan flow rate	$F$	$m^3/min$	61.0	-
Fan power input	$P$	$W$	46.2	-
Service value	$SV$	$(m^3/min)/W$	1.3	-
Standby power consumption	$P_{SB}$	$W$	-	-
Off mode power consumption	-	$W$	0.0	-
Seasonal electricity consumption	$Q$	$kWh/a$	14.8	-
Fan sound power level	$L_{WA}$	$dB(A)$	67.75	-
Maximum air velocity	$c$	$meters/sec$	3.4	-

