



Certificate #2343.01

TEST REPORT N°: DOE-ESH-P25111760B-3

MPE Test Report

Applicant:	Pro Design, LLC
Address:	1151 Campus Dr.Stow, 0H 44224
Manufacturer:	Pro Design, LLC
Address:	1151 Campus Dr.Stow, 0H 44224
Factory:	Ningbo Dooya Mechanic & Electronic Technology Co., Ltd
Address:	No. 168 Shengguang Road, Luotuo, Zhenhai, Ningbo, China
This document includes 5 pages	

Product Name:	Tubular motor	
Test Model:	DM35LE/S-6/24	
Serial Models:	N/A	
Brand Name:	Motoshade	
FCC ID:	2BMF4DM35LES0624	
Rated Voltage/Power:	DC 12V	
Received Date:	Nov. 24, 2025	
Test Date:	Dec. 01, 2025 to Dec. 31, 2025	
Applicable Standards:	47 CFR Part 2 Subpart J, § 2.1091	
Clause Examined:	All Clauses Relevant	

CONCLUSION : The submitted sample was found to **COMPLY** with the test requirement.

Test done by:

Ghost Li

Name: Ghost Li
Title: Project Engineer
Date: Jan. 05, 2026

Approved by:

Sean Yu

Name: Sean YU
Title: RF Supervisor
Date: Jan. 05, 2026

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Release Control Record

Issue No.	Description	Date Issued
DOE-ESH-P25111760B-3	Original release	Jan. 05, 2026



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1 General Information

1.1 General Description of EUT

Product	Tubular motor
Brand	Motoshade
Test Model	DM35LE/S-6/24
Power Rating	DC 12V
Modulation Type	ASK
Operating Frequency	433.92MHz
Number of Channel	1
Antenna Type	External Antenna
Antenna Connector	--

Note:

1. For more details, please refer to the User's manual of the EUT.



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2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1,500	-	-	F/1500	30
1,500-100,000	-	-	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

2.3 MPE Calculation Formula

The antenna of this product, under normal use condition, is at least 20cm from the body of the user. So the device is classified as **Mobile Device**.

2.4 Calculation Result of Maximum Permissible Exposure

Frequency Band (MHz)	Max. Field Strength @ 3m (dBμV/m)	Max. Power(dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
433.92	87.71	-7.49	20	3.5477×10^{-5}	0.289

$$\text{dBm} = \text{dB}\mu\text{V/m} - 95.2$$

Conclusion: The calculation result of MPE is less than the limit.

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