



AI Motors Specialist

A NEW HORIZON IN SUNLIGHT

AM45 BLDC Obstacle-Detecting Motor

Solar Charging | NiMH Battery Storage | Ultra-Quiet BLDC Motor



A-OK
DESIGNED FOR
SILENCE



A-OK
DESIGNED FOR
ENERGY
EFFICIENCY

No more brush wear *New!*

Redefining Longevity & Silence
with Revolutionary BLDC Technology

1

Efficient Charging in Low Light

**ETFE Vacuum-Deposited
Solar Panel**



2



Short-Circuit Protection & Alerts

-20°C ~ +70°C Wide Temperature Range

**2800/4000mAh Self-Recovering
PTC NiMH Battery**



3

**AM45 BLDC Motor with
Auto-Reverse**



REFRESH YOUR OLD HOME WITHOUT THE HASSLE

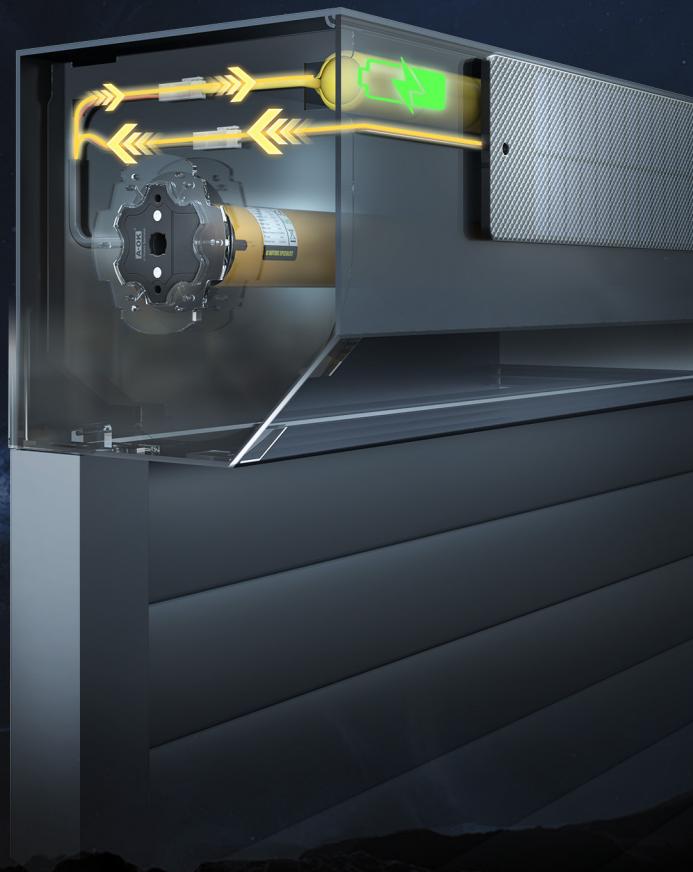
100% Solar-Powered · No Wiring
No Wall Damage

Plug & Play · Smart Shading in 30 Minutes

Frost Protection

Automatically stops operation when frost or ice is detected, protecting the system from damage

Frost Protection



Smart Cycle Calibration

Automatically recalibrates every 100 cycles, correcting accumulated errors for ± 2 mm positioning accuracy—no manual adjustment required

3 Limit Setting Methods

Supports automatic, semi-automatic, and manual limit setting

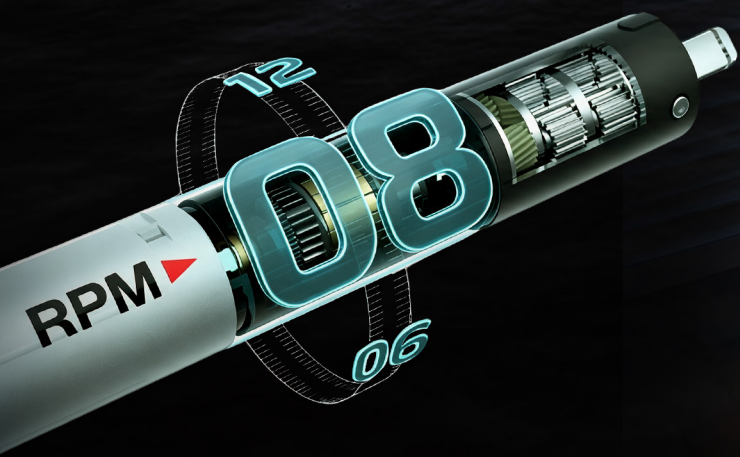
Obstacle detection

- Stops automatically when an obstacle is detected
- Adjustable detection sensitivity
- Enable or disable via remote control or app

3-Level Quiet Modes

· Quiet Mode: 6 rpm · Comfort Mode: 8 rpm · Standard Mode: 12 rpm

Three adjustable modes balance operating speed and quiet performance for diverse installation scenarios.



Obstacle Detection



STRONGER · QUIETER LONGER-LASTING

BLDC Brushless DC Motor

Extended Lifespan: Brushless design reduces wear, extends motor life, and lowers maintenance costs

Ultra-Quiet ≤ 35 dB: Frictionless operation reduces noise to ≤ 35 dB, delivering silky-smooth and whisper-quiet shade movement

Powerful & Energy-Efficient: Higher efficiency delivers powerful, stable performance and longer runtime

Low Heat & High Stability: Minimal Heat Buildup for Consistent Performance

BLDC Motor

7 Year Warranty

Beyond Movement Master Every Moment

Soft-start & soft-stop ensure smooth operation, while obstacle detection protects the motor and roller shutter

LOW STANDBY
POWER

All-Year Battery Life

< **2.3mW**



SMART LIVING SUSTAINABLE BY DESIGN

ETFE Solar Panel

Craftsmanship highlights

Craftsmanship	Etfе lamination process
Process Flow	Vacuum hot-press lamination: multi-layer fusion under high temperature & pressure
Structural Features	Tightly bonded layers · bubble-free · no air gaps
Encapsulation Materials	Etfе (ethylene tetrafluoroethylene) + eva (ethylene-vinyl acetate)

Performance specifications

Performance Specs	ETFE lamination
Service Life	7–10 years (outdoor use)
UV Resistant	Excellent, no yellowing
Heat Resistant	-65°C — +85°C
Waterproof	Sealed & water-resistant
Surface Properties	Non-stick · self-cleaning



2800 / 4000 mAh Options

Self-Recovering PTC NiMH Battery

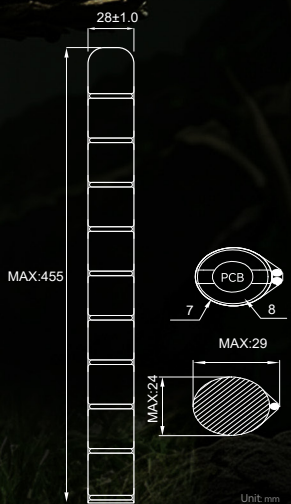
PTC Protection: Impact-resistant design withstands accidental drops

Low-Temperature: High-rate discharge and low-temperature charging down to -20°C

Intrinsic Safety:
Non-Flammable · No Thermal Runaway Risk

Wide-Temperature Operation: -20°C to +70°C

Eco-Compliant & Cost-Efficient · Cadmium- and Lead-Free · RoHS & REACH Compliant





Why Choose Matter

Open Connectivity: Support for multiple protocols and ecosystems enables seamless cross-platform connectivity and more smart home possibilities

Secure & Private: End-to-end encryption and access control protect privacy, while local control ensures fast response—even offline—for greater security and reliability

Easy to Use: Lower smart home costs with one app to control all your devices, making smart living easier for everyone

