# AM25 Low-Power Dissipation DC Motor User Manual

Ⅰ.Main features

- Energy Saving patent design, available for connecting with external battery pole or solar panel.
- Self−checking and correction of brake offset.
- Electronic limit setting, enjoyable programmable 6 limits for option (2 ends limits and 4 middle limits).
- Over loading protection, over−charging & lower−charging protection.
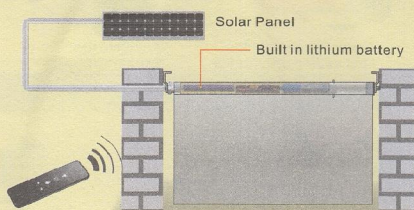- One fully charge could last 4−6 months with operation 1 minute a day.

Ⅱ. Applications
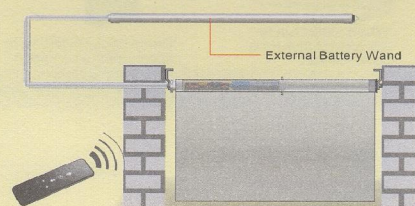
Application 1: Built−in Lithium Battery

Charger(100−240V input, DC8.4V 1A output)
Built in lithium battery
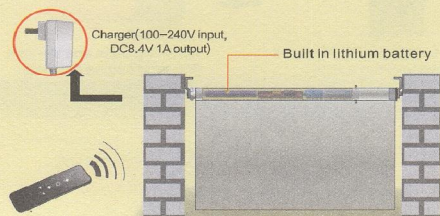
Please disconnect charger with the motor when its indicator light turn to green.

Application 2: Solar Panel Power

Solar Panel
Built in lithium battery

It takes 2 days to fulfill the battery in sunny day.

Application 3: Battery wand Power

External Battery Wand

Ⅲ.Operation

1.Power ON/OFF function
After switching off power, the motor wouldn't able to receive remote signals.
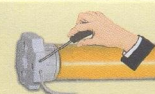
Switch Power ON

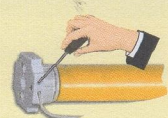Pressing down and hold the PROG for 1s → Motor beep once and switch on power
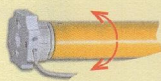
Switch Power OFF

Pressing down and hold the PROG for 7s (Motor jog once in 1s) → Motor long beep 1s and switch power off in 7s
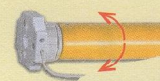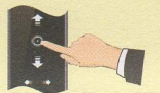
2.Programming

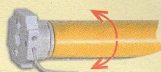Press PROG for 1s → Motor jog once → Press UP within 10s → Motor jog once and the program finished

3.Change direction
In case of the working direction was upside down, then follows below step, otherwise, please skips to limit setting step.
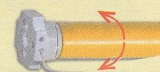
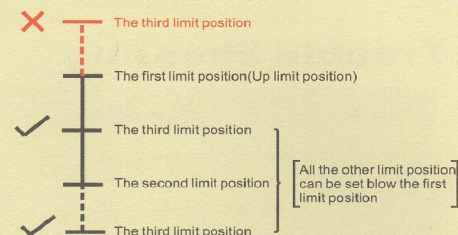Press STOP of the programmed transmitter for 5s → Motor jog once → Press Down within 10s → Motor jog once and the direction changed

4.Limit position setting

A. Maximum six different limit positions can be set, the furthest two positions called the UP and DOWN limit position, others called the middle limit positions;

B. When the first limit position is the UP limit position(as right illustration),all other limit positions can only be set below this position; the same thing, when the first limit position is the DOWN limit position, all other limit positions can only be set above this position;

C. Every limit position can be fine-tuned or deleted separately(The first limit positi on can only be fine-tuned but can't be deleted separately. It can be deleted when delete all memories);

D. The motor stops at the next limit position after accepting once UP/DOWN order. When it reaches the UP limit position, the UP order is no use any more; when it reaches the DOWN limit position, the DOWN order is no use;

E. Press the UP/DOWN button twice on the transmitter at the speed of once a second,motor will go directly to the UP/DOWN limit position without any stop at the middle limit

✗ The third limit position
The first limit position(Up limit position)
✓ The third limit position
The second limit position
✓ The third limit position

All the other limit position can be set blow the first limit position

5. First limit position setting (If there's no any action within 30's , the motor will exit from limit position preparation automatically)

Press the PROG of the programmed transmitter for 1s → Motor jog once enter into limit setting preparation → Press UP adjusting the motor to the expected position to set the up limit position as first limit, Or press DOWN to set the down limits as the first limit. → Press the back PROG for 1s to save the limit position → Motor jog once and the limit setting finished

6. Other limit position setting * (If there's no any action within 30s , the motor will exit from limit position preparation automatically)

Move the motor to the expected position → Press back PROG for 1s → Motor jog once enter limit setting preparation → Press the back PROG for 1s to save the limit position → Motor jog once and the limit setting finished

7. Limit position fine-tuning * (If there's no any action within 30s , the motor will exit from limit position preparation automatically)

When motor run to the expect fine-tune limit position → Press back PROG 1s to enter setting condition → Motor jog once enter limit setting preparation → Adjust to the expected position → Press the back PROG for 1s to save the limit position → Motor jog once and the limit fine-tune setting finished

8. Delete the limit position * (The first limit position can't be deleted)

Let motor run to the limit position which need to be deleted → Press back PROG for 7s → Motor jog once in 1s enter limit setting preparation → Motor jog once in 7s, the preset limit position deleted

9. Dot move and continuous move convertion

Press STOP of the programmed transmitter for 5s → Motor jog once → Press STOP → Motor jog once to confirm the convertion

10. Add the new transmitter

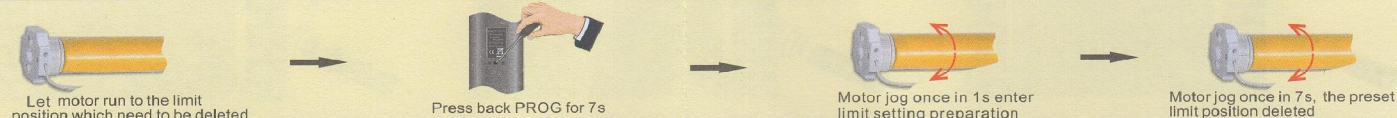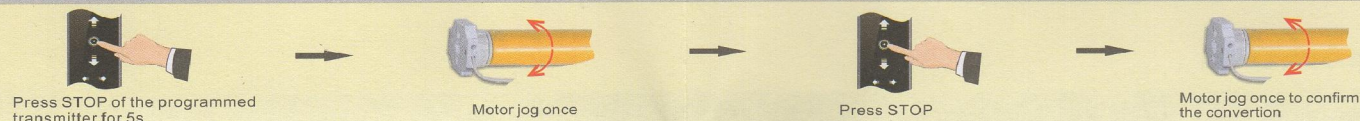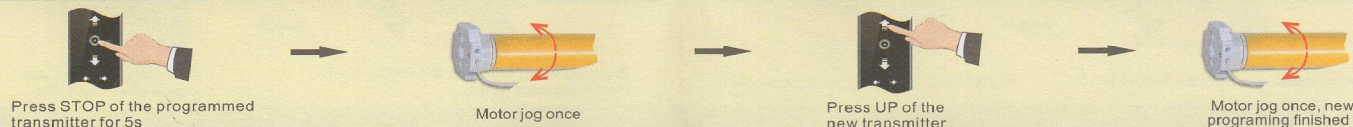Press STOP of the programmed transmitter for 5s → Motor jog once → Press UP of the new transmitter → Motor jog once, new programing finished

11. Delete single channel memory

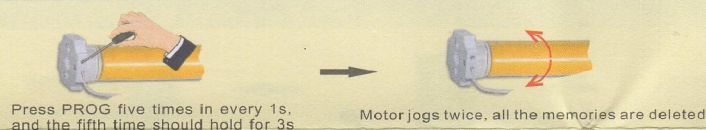Press STOP of the programmed transmitter for 5s → Motor jog once → Press back PROG for 1s → Motor jog once, single channel is deleted
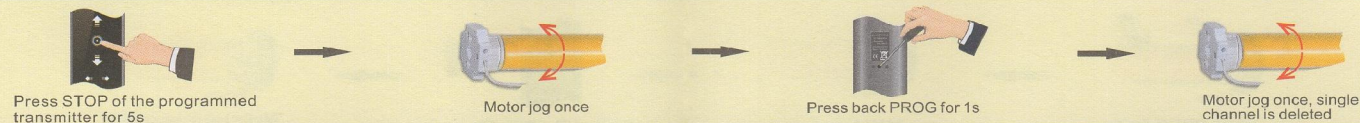
12. Delete all the memories * After deleting all codes, the motor will be restored to factory setting.

Method 1

Press PROG five times in every 1s, and the fifth time should hold for 3s → Motor jogs twice, all the memories are deleted

Method 2

Press STOP of the programmed transmitter for 5s → Motor jog once → Press back PROG for 7s within 10s → Motor jog once in 1s → Motor jog two more times in 7s, all the memories are deleted

IV. Trouble Shooting

Items	Problem	Matter	Shooting
1	Motor does not run, or run slowly	a.Over-load protection b.Non-proper installation	a.Exchange with proper motor b.Check if proper installed
2	Motor does not run, or run slowly	a.Motor reaches the limit b.Out of battery	a.Normal situation b.Recharge the battery
3	Motor does not run, or run slowly	a.In power off mode b.Out of battery	a.Power on motor b.Recharge the battery

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