

Users Manual (FM 40A, FM 60A, FM 80A, FM 120A)

Specifications:

Model: FM40A FM60A FM80A FM120A
Continuous working current: 40A 60A 80A 120A
Weight: 35g 55g 55g 70g

Input Voltage: NiMH 6 - 16 Cells
Li-ion 2 - 5 Cells

BEC Current: No

Main Functions

1. Safety mode: the motor won't start no matter what the position of the control stick is when switched on the RC unit.
2. Brake Setting: On/Off (factory setting is off)
3. Three point battery type and low voltage selection.
4. Software reversion of motor turning direction.
5. Low current protection: ignore/reduce power/shut off
6. Temperature protection: reduce power when the temperature reaches 120 degrees C
7. PWM frequency: 8KHZ/16KHZ
8. RPM setting: 20,000rpm/50,000rpm/100,000rpm (60A/80A Only)

ESC program procedure

Normal Start Up

When throttle stick is off, you will hear one Beep for Brake on, or two tones for Brake off.

Program

When throttle stick is at full power connect battery and switch on and wait for 5 seconds.

Setup mode is entered:

1. Brake: If you pull the stick to off within 5 sec Brake will be changed (On ->Off or Off ->On)
2. Battery type: (Voltage Cut-off)
Ni-Cad
2 Lipos(5.6V)
3 Lipos(8.4V)
4 Lipos(11.2V)
5 Lipos(14V)

3. Rotation Reverse: Reverse motor rotation 5 short musical notes

4. Soft Start: Enable: 5 short musical notes
Disable: 5 long musical notes

5. Under Voltage:
Ignore: _ . . _ . . _ . . _ . . _ . .
Reduce Power: _ . _ . _ . _ . _ .
Cut Off: . _ . _ . _ . _ . _ .

6. Timing:
Automatic (7 - 30 Degree)
Soft (7 degrees)
Hard(22 - 30 Degrees) , , , ,

7. Frequency: 8kHz ' ' ' ' '
16kHz b b b b b

Restore Default Settings: _____

8. Active rpm control :

rpm control off: _ _ _ _ _
20,000 rpm _ _ _ _ _
50,000 rpm _ _ _ _ _
100,000 rpm _ _ _ _ _
(60A/80A only)

Factory Default Settings:

Brake: Off Battery Type: 3 Li -Poly Under Voltage: Reduce Power Soft Start:
Enable
Timing: Auto Frequency: 8kHz Active RPM Control: Off

Notice:

1. Make sure the connections for battery positive/negative are right. Reversing the connection will damage the ESC permanently.
2. Use suitable batteries. Do not exceed the working voltage of the ESC.
3. The company keeps the right to change design, function, or package without notice.
4. Take care in using safely. Incorrect use may cause injury to the body. The company will not be responsible for any damage or loss caused by incorrect operation.