USERS MANUAL (FM20A, FM30A)

SPECIFICATION:

Model: FM20A Model: FM30A

Continuously working current: 20A Continuous working current: 30A Input voltage: Ni-Mh $6\sim$ 12cells Input voltage: Ni-Mh $6\sim$ 12cells

Li-ion 2~3cells Li-ion 2~3cells

BEC current: 2A (max)

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Weight: 20g Weight: 25g

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.

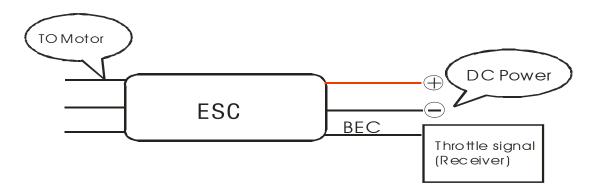
4. Software reversion of motor turning direction.

5. Low current protection: ignore/reduce power/shut off

6. Temperature protection: reduce power when the temperature reaches 120 degree C.

7. PWM frequency: 8KHZ/16KHZ

8. RPM setting: 20000RPM/50000RPM



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 connects battery and switch on, and wait for 5 sec. setup mode is entered:

1. Brake

If you pull the stick to off within 5 sec. Brake will be changed. (ON \rightarrow OFF, or OFF \rightarrow ON)

2. Battery type (Voltage Cut-off)
NiCad:
2Lipos: (5.6V)
3. Rotation reverse Reverse motor rotation まります
4. Soft start Enable
5. Under voltage Ignore:
Reduce power:
Reduce power
Cut off:
6. Timing
automatic(7 \sim 30 degree)
Soft:(7 degree)
Hard(22~30 degree)
7. Frequency 8.kHz
8. Restore Factor Default Settings
9. Active RPM Control
rpm control off
Factor default settings:
Brake: Off
Battery type: 3 Li-poly
Under voltage Reduce power
Soft start: Enable

Timing: Auto
Frequency: 8KHz
Active Control: Off

Notice:

- 1. Make sure the right connection for the battery positive and negative, the reversed connection will damage ESC perpetually.
- 2. Use the suitable batteries, do not be over the working voltage of ESC.
- 3. The company keeps the right for any changes of designing, functions, outside, etc. without notice.
- 4. Take care safety in using, it may injure the body. The company will not be responsible for any lose with incorrect operation.