DYSRC

POWER YOUR PASSION

Better Power.
Bigger Adventures.

SUMMUSKY Series

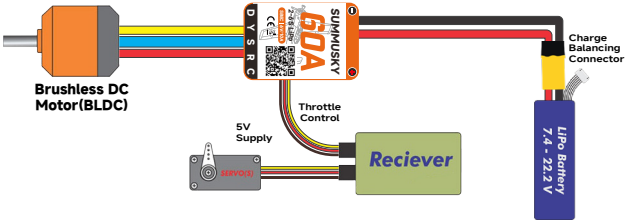
Brushless ESCs

32-Bit MCU | High-power UBEC | High Performance | Multiple Protection | Programmable | Light Weight Design

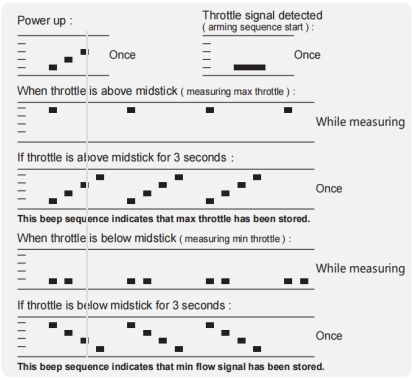
Specification

Item No. / Name	Number of Cel	Current	UBEC	Weight	Size (LxWx T)w/o wires
SUMMUSKY 12A	2S-4S Lipo	12A cont. / 25A peak	5.0V 3A /5A peak	2.8g /15.23g	24 x 17.5 x 5.5 mm
SUMMUSKY 20A	2S-5S Lipo	20A cont. / 40A peak	5.0V 3A /5A peak	5.5g/26.45g	40 x 24 x 6 mm
SUMMUSKY 30A	2S-5S Lipo	30A cont. / 50A peak	5.0V 3A /5A peak	5.5g/26.55g	40x 24 x 6 mm
SUMMUSKY 40A	2S-6S Lipo	40A cont. / 60A peak	5.0V 5A /8A peak	8.5g/33.40g	42 x 25 x 6 mm
SUMMUSKY 50A	2S-6S Lipo	50A cont. / 70A peak	5.0V 5A /8A peak	8.5g/33.40g	42 x 25 x 6 mm
SUMMUSKY 60A	2S-6S Lipo	60A cont. / 80A peak	6.0V 10A /16A pea	14g /47.85g	45x 30 x 7 mm
SUMMUSKY 80A	2S-6S Lipo	80A cont. / 100A peak	6.0V 10A /16A eak	15g /61.40g	45 x 30 x 7 mm

Wiring Diagram

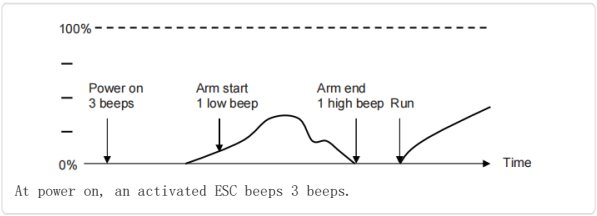


Throttle calibration



At this point throttle calibration values are stored. You may remove power from the ESC, or just continue running your ESC.

Arming sequence

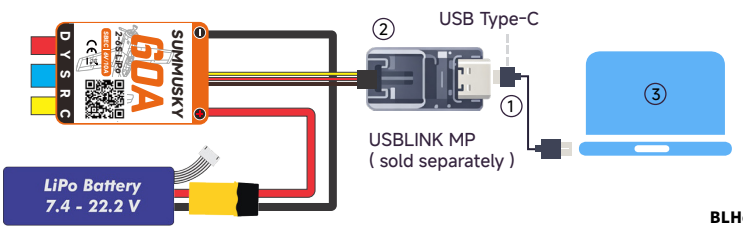


At power on, an activated ESC beeps 3 beeps.

When throttle signal is detected, it beeps one low tone beep. This signals that input signal is detected. Then, when or if throttle is zero, it beeps one high tone beep. This signals the end of the arming sequence, and the ESC is ready to run.

Also, if more than 50% throttle is detected at arm start, the ESC starts throttle calibration. If the esc is armed and sees zero throttle for a given time, it beeps beacon beeps, which are approxi-mately one beep per three seconds.

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BLHeliSuite32 Application Installation

① Connect the USBLINK MP to the PC.

② Connect the ESC to the USBLINK MP.
(the ESC need to be connected to the power battery).

③ Run the PC setting software, select the port and connect.

④ Adjust parameter settings as needed and save

Programming parameters

> Default ESC Settings

- Motor Direction : Normal
- Motor Timing : 16 ｜ 18 deg
- Minimum Throttle : 1040
- Center Throttle : 1500
- Maximum Throttle : 1960
- Low Voltage Protection : 3.00V
- Brake On Stop : Off
- Rampup Power: 50% ｜ 100%
- PWM Frequency : 48kHz
- Throttle Calibration : Enable
- Sine Modulation Mode : Off
- Auto Telemetry : Off
- Beacon Delay : 10:00 Min

- **Rampup Power :** Rampup power can be set to relative values from 3% to 150%.
- **Motor Direction :** Motor direction can be set to fwd, rev, bidirectional 3D, bidirectional 3D rev,bidirectional soft and bidirectional soft rev.
- **Motor Timing :** Motor timing can be set between approximately 1° and approximately 31°in approximately 1° increments (actual accurate values here are 15/16ths of a degree).
- **PWM frequency :** Motor PWM frequency can be programmed in a range that is preconfigured by the ESC manufacturer.
- **Demag Compensation :** Demag compensation is a feature to protect from motor stalls caused by long winding demagnetization time after commutation.
- **Sine Modulation Mode :** Sine modulation mode can give a few percent more efficient running, as well as smoother running.
- **Maximum Acceleration :** Maximumaccelerationcanbesetbetween0.1%/ms&25.5%/ms.
- **Regenerative braking / active freewheeling :** Damped light mode is implemented by doing regenerative braking, and inherently active freewheeling is also implemented.
- **S.BUS :** S.BUS as input signal is supported.
- **Throttle Cal Enable :** If disabled, throttle calibration is disabled.
- **Temperature Protection :** Temperature protection can be enabled or disabled.
- **Low RPM Power Protect :** Power limiting for low RPMs can be enabled or disabled.
- **Low Voltage Protection :** non-adjustable; soft bucklin power limit below 3.2V (40%); aircraft retains poewer for return flight
- **Minimum throttle, maximum throttle and center throttle :** These settings set the throttle range of the ESC.
- **Brake On Stop :** Brake on stop can be set between 1% and 100%, or disabled.
- **Auto Telemetry :** When auto telemetry is enabled, the ESC will autonomously output telemetry at 32ms intervals, regardless of whether or not there are telemetry requests from the input signal.

Warranty

DYS electronic products warranty is for 12 months from the date of sale.
If you want to claim during the warranty period, please contact your dealer immediately. The cashier receipt at the model store can prove whether the goods are under warranty.

Thank you very much for using this product. Please use this product strictly in accordance with the manual.

We do not assume any liability arising out of the use of this product or illegal modification or improper operation, including but not limited to indirect damage or joint liability, the maximum compensation is not higher than the price of the product itself. By using this product, you agree to the terms of this statement.

Warranty Conditions

- ✓ Provide cashier receipts
- ✓ Operate the equipment correctly
- ✓ Use recommended power supplies & accessories
- ✓ No water, reverse polarity or over load damage
- ✓ Provide a concise and accurate description of the fault

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