

# X13 G2 Propulsion System Specification

## All-in-One Thrust System Specification

|                                     |                                                     |                                          |                                                      |
|-------------------------------------|-----------------------------------------------------|------------------------------------------|------------------------------------------------------|
| Product name                        | X13 G2                                              | Max thrust                               | 60kg (at sea level)                                  |
| Recommended takeoff weight per axis | 27 kg (at sea level)                                | Efficiency of recommended takeoff weight | 8.6 g/W (MFP56x20)<br>8.4 g/W (MFC57x20)             |
| Compatible lithium battery          | 18S (LiPo)                                          | Rated voltage                            | 18S-69 V                                             |
| Input voltage                       | 25~80 V                                             | Tube outer diameter                      | D50 mm                                               |
| Weight (with cable and propeller)   | 4185 g*                                             | Cable specification                      | Power cable: 10AWG 1700mm*<br>Signal cable: 1120 mm* |
| Operating temperature               | -20~50 °C                                           | Ingress protection                       | IPX6                                                 |
| Pinout                              | Black-GND, White-PWM & Yellow-GND, Red-CH, Green-CL | Rated output power (Max continuous)      | 2700 W                                               |

## ESC Specification

|                            |               |                        |                 |
|----------------------------|---------------|------------------------|-----------------|
| Rated voltage              | 18S (LiPo)    | Communication protocol | Cyphal (UAVCAN) |
| Peak current (3s)          | 200 A         | Continuous current     | 70 A            |
| Throttle range calibration | Not supported | Throttle source        | PWM+CAN         |
| Operating pulse width      | 1050-1950 μs  | Fault storage & Log    | Supported       |

## Motor Specification

|             |           |                |        |
|-------------|-----------|----------------|--------|
| KV value    | 45 KV     | Slot & Pole    | 36N42P |
| Stator size | 138*25 mm | Motor diameter | 148 mm |

## Propeller Specification

### Default

|                    |                                                  |                     |        |
|--------------------|--------------------------------------------------|---------------------|--------|
| Model              | MFP 56x20 (Folding propeller)                    | Total weight        | 811 g* |
| Material of blades | Carbon fibre-reinforced nylon composite material | Single blade weight | 293 g* |

### Optional

|                    |                                 |                     |        |
|--------------------|---------------------------------|---------------------|--------|
| Model              | MFC 57x20 (Folding propeller)   | Total weight        | 805 g* |
| Material of blades | Carbon fibre composite material | Single blade weight | 250 g* |

\*Subject to the actual product.