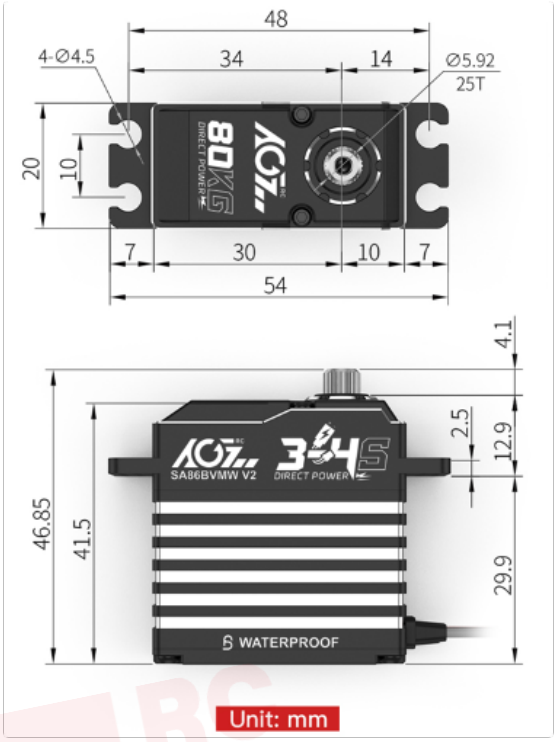
# PRODUCT SPECIFICATION

# SA86BVMW V2

| | |
|---|---|
| **Control System** | PWM |
| **Refresh Rate** | 333 Hz |
| **Neutral Position** | 1520 µSec |
| **Signal Mode** | Digital |
| **Dead band** | 2 µSec |
| **Operating Voltage** | 7.4V ~ 17.0V |
| **Operating Temp.** | -15°C ~ +70°C |
| **Bearing** | 3BB |
| **Mechanical Angle** | No Limit |
| **Dimension** | 40 x 20 x 41.5 mm |
| **Net Weight** | 90.5 g |
| **Connector / Cable** | TYU+JST 300mm / 22AWG |
| **Operating Travel** | 180° ± 10° |
| **Signal Range** | 500 to 2500 µSec |




| **Operating Speed** | **Stall Torque** | **Unload Current** | **Loading Current** |
|---|---|---|---|
| 0.140 sec/60° @ 11.1V | 58.0 kg-cm (806 oz-in) @ 11.1V | 320 mA @ 11.1V | 4500 mA @ 11.1V |
| 0.125 sec/60° @ 12.0V | 65.0 kg-cm (903 oz-in) @ 12.0V | 360 mA @ 12.0V | 4600 mA @ 12.0V |
| 0.110 sec/60° @ 14.4V | 72.0 kg-cm (1000 oz-in) @ 14.4V | 450 mA @ 14.4V | 5000 mA @ 14.4V |
| 0.100 sec/60° @ 16.0V | 78.0 kg-cm (1084 oz-in) @ 16.0V | 480 mA @ 16.0V | 5200 mA @ 16.0V |
| 0.095 sec/60° @ 16.8V | 80.0 kg-cm (1112 oz-in) @ 16.8V | 530 mA @ 16.8V | 5500 mA @ 16.8V |

| | | | |
|---|---|---|---|
| **Direction** | CCW | **Motor Type** | Brushless |
| **Waterproof Level** | IP67 | **Angle Sensor** | Magnetic Angle |
| **Programmable** | Yes | **Motor Drive** | FET Drive |
| **Gear Material** | Strength Steel | **Horn Gear Spline** | 25T-Ø5.92mm |
| **Case Material** | Aluminum | **Bearing Material** | Metal |
| **Wire Color (- + S)** | Negative: ● Positive: ● Control Signal: ● Signal Negative: ● | | |

**Default Accessories**

① 1 pc x 25T-Ø5.92mm L=34.9mm Metal Horn
② 1 pc x 25T-Ø5.92mm L=45mm Plastic Horn
③ 1 pc x 25T-Ø5.92mm L=40.3mm Plastic Horn
④ 1 pc x 25T-Ø5.92mm L=27.5mm Plastic Horn
⑤ 4 pcs x M3*12mm Screws
⑥ 1 pc x M2*8mm Screw
⑦ 4 pcs x 9*6.9*5.6mm Rubber Pads
⑧ 4 pcs x Ø6*Ø3.5*5mm Copper Sleeves



Remark: If you have any questions about the SA86BVMW V2 servo, please contact shopping@agfrc.com directly.