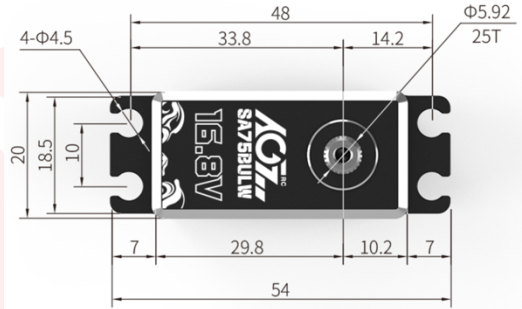


## SA75BUMW

|                            |                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|
| <b>Control System</b>      | PWM                                                                                                                                                                                                                                                                                                                                                                                                |                         |                        |
| <b>Refresh Rate</b>        | 333 Hz                                                                                                                                                                                                                                                                                                                                                                                             |                         |                        |
| <b>Neutral Position</b>    | 1520 $\mu$ Sec                                                                                                                                                                                                                                                                                                                                                                                     |                         |                        |
| <b>Signal Mode</b>         | Digital                                                                                                                                                                                                                                                                                                                                                                                            |                         |                        |
| <b>Dead band</b>           | 2 $\mu$ Sec                                                                                                                                                                                                                                                                                                                                                                                        |                         |                        |
| <b>Operating Voltage</b>   | 7.4V ~ 17.0V                                                                                                                                                                                                                                                                                                                                                                                       |                         |                        |
| <b>Operating Temp.</b>     | -15°C ~ +70°C                                                                                                                                                                                                                                                                                                                                                                                      |                         |                        |
| <b>Bearing</b>             | 2BB                                                                                                                                                                                                                                                                                                                                                                                                |                         |                        |
| <b>Mechanical Angle</b>    | No Limit                                                                                                                                                                                                                                                                                                                                                                                           |                         |                        |
| <b>Dimension</b>           | 40 x 20 x 41.5 mm                                                                                                                                                                                                                                                                                                                                                                                  |                         |                        |
| <b>Net Weight</b>          | 88.5 g                                                                                                                                                                                                                                                                                                                                                                                             |                         |                        |
| <b>Connector / Cable</b>   | TYU+JST 300 mm / 22AWG                                                                                                                                                                                                                                                                                                                                                                             |                         |                        |
| <b>Operating Travel</b>    | 180° $\pm$ 10°                                                                                                                                                                                                                                                                                                                                                                                     |                         |                        |
| <b>Signal Range</b>        | 500 to 2500 $\mu$ Sec                                                                                                                                                                                                                                                                                                                                                                              |                         |                        |
| <b>Operating Speed</b>     | <b>Stall Torque</b>                                                                                                                                                                                                                                                                                                                                                                                | <b>Unload Current</b>   | <b>Loading Current</b> |
| 0.145 sec/60° @ 10.0V      | 40.0 kg-cm (556 oz-in) @ 10.0V                                                                                                                                                                                                                                                                                                                                                                     | 320 mA @ 10.0V          | 4300 mA @ 10.0V        |
| 0.135 sec/60° @ 11.1V      | 45.0 kg-cm (625 oz-in) @ 11.1V                                                                                                                                                                                                                                                                                                                                                                     | 380 mA @ 11.1V          | 4600 mA @ 11.1V        |
| 0.125 sec/60° @ 12.0V      | 48.0 kg-cm (667 oz-in) @ 12.0V                                                                                                                                                                                                                                                                                                                                                                     | 480 mA @ 12.0V          | 4900 mA @ 12.0V        |
| 0.120 sec/60° @ 12.6V      | 50.0 kg-cm (694 oz-in) @ 12.6V                                                                                                                                                                                                                                                                                                                                                                     | 480 mA @ 12.6V          | 5100 mA @ 12.6V        |
| 0.105 sec/60° @ 14.4V      | 54.0 kg-cm (750 oz-in) @ 14.4V                                                                                                                                                                                                                                                                                                                                                                     | 530 mA @ 14.4V          | 5500 mA @ 14.4V        |
| 0.098 sec/60° @ 16.0V      | 60.0 kg-cm (833 oz-in) @ 16.0V                                                                                                                                                                                                                                                                                                                                                                     | 600 mA @ 16.0V          | 5800 mA @ 16.0V        |
| 0.092 sec/60° @ 16.8V      | 62.0 kg-cm (861 oz-in) @ 16.8V                                                                                                                                                                                                                                                                                                                                                                     | 630 mA @ 16.8V          | 6000 mA @ 16.8V        |
| <b>Direction</b>           | CCW                                                                                                                                                                                                                                                                                                                                                                                                | <b>Motor Type</b>       | Brushless              |
| <b>Waterproof Level</b>    | IP67                                                                                                                                                                                                                                                                                                                                                                                               | <b>Angle Sensor</b>     | Magnetic Angle         |
| <b>Programmable</b>        | Yes                                                                                                                                                                                                                                                                                                                                                                                                | <b>Motor Drive</b>      | FET Drive              |
| <b>Gear Material</b>       | Strength Steel                                                                                                                                                                                                                                                                                                                                                                                     | <b>Horn Gear Spline</b> | 25T- $\Phi$ 5.92mm     |
| <b>Case Material</b>       | Aluminum                                                                                                                                                                                                                                                                                                                                                                                           | <b>Bearing Material</b> | Metal                  |
| <b>Wire Color (- + S)</b>  | Negative: ●      Positive: ●      Signal Negative: ●      Signal: ●                                                                                                                                                                                                                                                                                                                                |                         |                        |
| <b>Default Accessories</b> | ① 1 pc x JST Male to XH2.5 4P Female, 20AWG Silicone, 10cm<br>② 1 pc x JST Male to XH2.5 5P Female, 20AWG Silicone, 10cm<br>③ 1 pc x 25T- $\Phi$ 5.92mm Metal Horn<br>④ 3 pcs x 25T- $\Phi$ 5.92mm Plastic Horns<br>⑤ 4 pcs x M3*12mm Screws<br>⑥ 2 pcs x M2*8mm Screws<br>⑦ 1 pc x M3*8mm Screws<br>⑧ 4 pcs x $\Phi$ 6* $\Phi$ 3.5 $\Phi$ 5mm Copper Sleeves<br>⑨ 4 pcs x 9*6.5*5.6mm Rubber Pads |                         |                        |



Unit: mm