

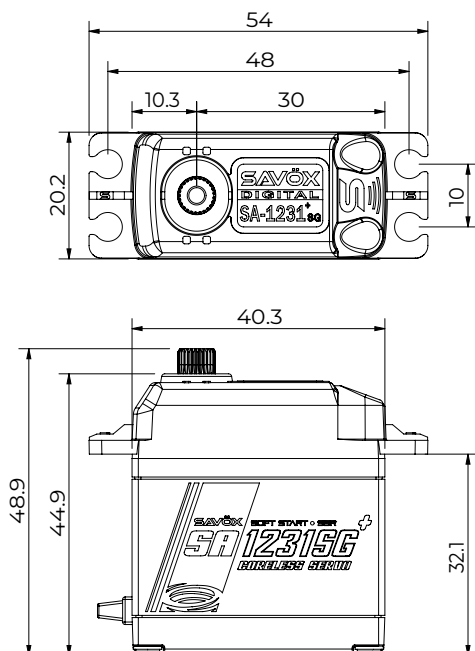


## SA-1231SG+

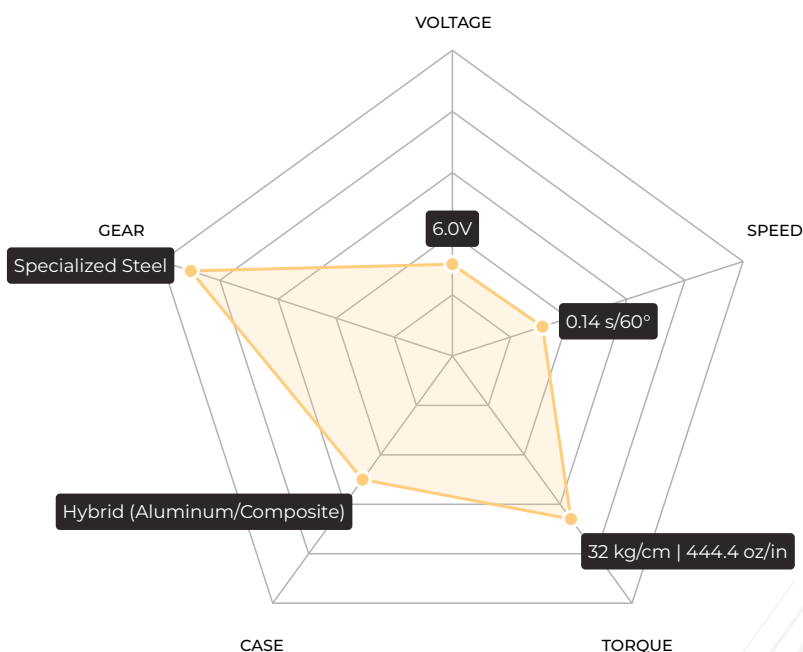


|                        |                              |
|------------------------|------------------------------|
| Line                   | ORIGINAL LINE                |
| Application            | AIRPLANE                     |
| Servo Size             | Standard                     |
| Operating Voltage      | 4.8V-6.0V                    |
| Speed                  | 0.14 s/60°                   |
| Torque                 | 32 kg/cm   444.4 oz/in       |
| Amplifier Type         | Digital Controller           |
| Motor Type             | Coreless                     |
| Case Type              | Hybrid (Aluminium/Composite) |
| Protection             | Water Resistant              |
| Dimensions (L x W x H) | 40.3 x 20.2 x 44.9 mm        |
| Weight                 | 79 g                         |
| Gear Type              | Specialized Steel            |

### DIMENSIONS



### PERFORMANCE RADAR



### DETAILED SPECIFICATION

|                    |                                        |                         |                          |
|--------------------|----------------------------------------|-------------------------|--------------------------|
| Compability        | Sanwa SSR                              | Potentiometer           | VR                       |
| Speed @4.8V        | 0.18 s/60°                             | Cable                   | 22 AWG 200 ±5 mm         |
| Torque @4.8V       | 28 kg/cm   388.8 oz/in                 | Connector               | JR Connector             |
| Speed @6.0V        | 0.14 s/60°                             | Stall Current @4.8V     | 4200 mA                  |
| Torque @6.0V       | 32 kg/cm   444.4 oz/in                 | Operating Current @4.8V | 220 mA                   |
| PCB Board          | 12-bit                                 | Stall Current @6.0V     | 5300 mA                  |
| Rotating Direction | Counterclockwise (when 1000+2000 µsec) | Operating Current @6.0V | 250 mA                   |
| Max Travel         | ~130° (when 900+2100 µsec)             | Idle Current            | 5 mA                     |
| Operating Travel   | 100° (when 1000+2000 µsec)             | Dead Band Width         | 3-5 µsec                 |
| Neutral Position   | 1500 µsec                              | Frequency Range         | 50-360 Hz                |
| Horn Gear Spline   | 25T(Φ6)                                | Control System          | Pulse width modification |
| Bearing            | 2x Ball Bearings                       | Operating Temperature   | -10°C to 50°C            |