


# ABDS-690HTG+HV / Low Profile High Voltage Servo+HS+TG

## (High Toque / Speed)

|                                 |  |   |
|---------------------------------|--|---|
| Control System                  | Positive PWM control 1500 usec Neutral                     |   |
| Operation Voltage Range         | 6.0V ~ 7.4V  |   |
| Operation Temperature Range     | -20C° ~ +60C° (-4°F ~ 140°F)                               |   |
| Test Voltage:                   | <b>At 6.0V (Ni-cd)</b>                                     | <b>At 7.4V (Ni-cd)</b>  |
| Stall Torque                    | 8.7kg/cm , 108 oz/in                                       | 9.9kg/cm , 112 oz/in  |
| Standing Torque                 | 8.8kg/cm , 120 oz/in                                       | 10.1kg/cm , 129 oz/in   |
| Speed                           | 0.10 sec / 60° at no load                                  | 0.08 sec / 60° at no load   |
| Idle Current                    | 2mA at stopped   | 2mA at stopped  |
| Running Current                 | 290mA at no load   | 380mA at no load  |
| Stall Current                   | 1090mA   | 1500mA  |
| Dead band width                 | 2 usec   | 2 usec  |
| Operation Travel                | 40°/ one side pulse travel 400 usec                        |   |
| Direction                       | Re-clock wise/ Pulse Travel 1500 to 1900 usec              |   |
| Motor Type                      | Japan Brushless motor                                      |   |
| Potentiometer Type              | 4 Slider/indirect drive                                    |   |
| Amplifier Type                  | 6A Treble Power MOS-FET                                    |   |
| Dimensions                      | 42 x 20.0 x 22 mm / 1.65 x 0.78 x 0.87 inch                |   |
| Weight:                         | 34g / 1.19oz without splined horn                          |   |
| Ball Bearing                    | Dual / M10x6   |   |
| Gear Material                   | Titanium Gears   |   |
| Horn Gear Spline                | Metal 25 Tooth (External diameter: 5.9mm)                  |   |
| Connector Wire Length           | 200mm (7.65inch)   |   |
| Connector Wire Stand Counter    | 60EA   |   |
| Connector Wire Gauge            | 22AWG  |   |
| Wire Info (Black)               | - Negative   |   |
| Wire Info (Red)                 | + Positive   |   |
| Wire Info (White)               | S Single   |   |
| <b><u>Spare Parts Items</u></b> |  |   |
| Servo Gear Set                  | <#10701> ADS-660DTG (Titanium Gears)                       |  |
| Servo Case Set                  | <#10704> ADS-660DTG(Outside case)                          |   |
| Servo Accessories               | <#10705> ADS-660DTG(Accessories - Horn & screws & rubber ) |   |

Version: 1.2

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