## GENERAL SPECIFICATION OF D646WP TORQUE TYPE WATER PROOF SERVO

1. **TECHNICAL VALUE**
   - **CONTROL SYSTEM**: +PULSE WIDTH CONTROL 1500usec NEUTRAL
   - **OPERATING VOLTAGE RANGE**: 4.8V TO 7.4V
   - **OPERATING TEMPERATURE RANGE**: -20°C TO +60°C (-4°F TO +140°F)
   - **TEST VOLTAGE**: AT 4.8V
   - **OPERATING SPEED**: 0.24sec/60' AT 6.0V
   - **STALL TORQUE**: 7.5kg.cm (104.72oz.in)
   - **STANDING TORQUE**: 9.6kg.cm (134.05oz.in)
   - **IDLE CURRENT**: 30mA AT STOPPED
   - **RUNNING CURRENT**: 270mA
   - **STALL CURRENT**: 1500mA
   - **DEAD BAND WIDTH**: 2usec
   - **OPERATING TRAVEL**: 40±5'/ONE SIDE PULSE TRAVELING 400usec
   - **DIRECTION**: CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec
   - **MOTOR TYPE**: CORED CABON BRUSH
   - **POTENTIOMETER TYPE**: 4 SLIDER/1M CYCLE LONG LIFE/INDIRECT DRIVE
   - **AMPLIFIER TYPE**: NUVOTON 32BIT MCU DIGITAL AMPLIFIER WITH MOSFET DRIVE
   - **DIMENSIONS**: 41.8x21.0x40.0mm (1.65x0.83x1.57in)
   - **WEIGHT**: 61g (2.15oz)
   - **BALL BEARING**: DUAL MR106
   - **GEAR MATERIAL**: 3 Metal gears & 1 MP first gear
   - **HORN GEAR SPLINE**: 25 SEGMENTS/Ø6.0
   - **SPUNDED HORNS**: HEAVY DUTY/HD-LS25, HD-IM25, HD-OS25 and HD-X25
   - **CONNECTOR WIRE LENGTH**: 300mm (11.81in)
   - **CONNECTOR WIRE STRAND COUNTER**: 0.08X60EA
   - **CONNECTOR WIRE GAUGE**: 22AWG
   - **Duration of the test in water**: 30min

![Servo Diagram](image)

2. **FEATURES**
   - IP67 WATER PROOF CASE
   - DURABLE METAL GEARS WITH BALL BEARING
   - PROGRAMABLE
   - HEAVY DUTY SPUNDED HORNS

3. **APPLICATIONS**
   - GAS & ELECTRIC CARS
   - BOATS

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