

GENERAL SPECIFICATIONS

Name: Flywheel Magneto

MECHANICAL SPECIFICATIONS

Direction of rotation Counterclockwise (viewed smaller taper side)
Range of revolution 500 rpm ~ 12000 rpm
Guaranteed Revolutions The deformation of outside diameter must be 0.05 max under 14000 rpm
Test for 3 minutes

Limit of unbalance By static ballance <10 g cm or less
Momenti di inerzia 12 Kg cm²
Total weight 1566 g

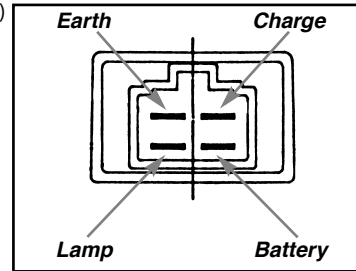
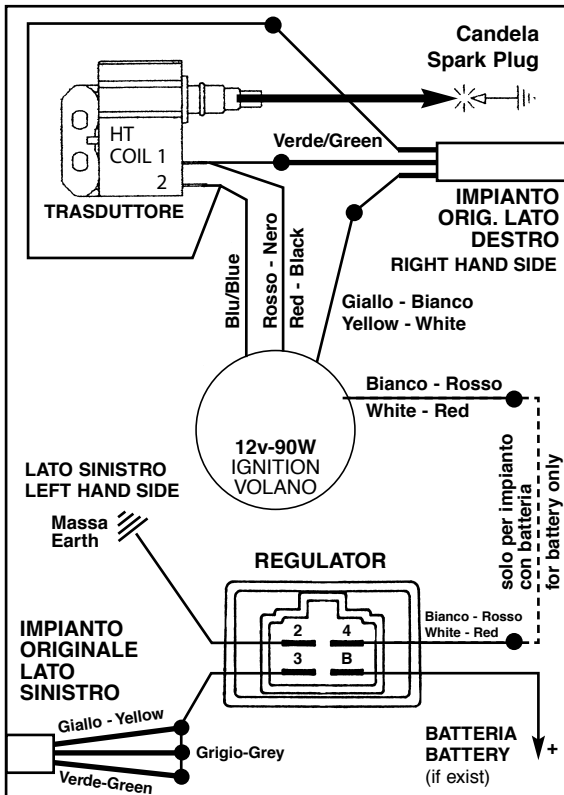
Stator 517 g
Rotor 1050 g

Air Gap Between stator and rotor 0.55 mm Min
Surface treatment Yellow electroplated coating of zinc (Tmin guaranteed = 150° C)

ELECTRICAL SPECIFICATIONS

Ignition method C.D. Ignition system (Thyristor)
Number of sparks 2 sparks per revolution at 180°

ACTUAL CIRCUIT



MEANING OF SYMBOLS

- $\Rightarrow n$ Supplied power
 - θ Ignition timing before top lead dead center
 - N r.p.m.
 - V_o Secondary voltage 50pF loaded
- NOTE The core of the stator must be at earth potential with the engine

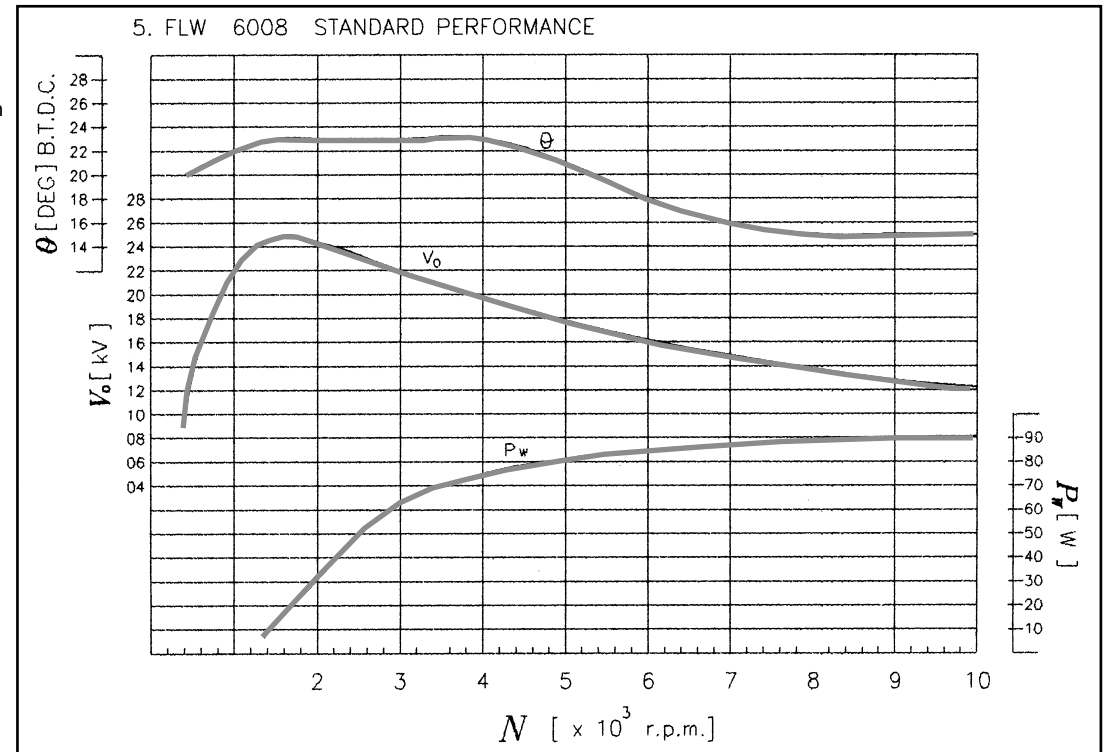
RESISTANCE VALUES OF COILS (AT 20°C)

Measuring place	Resistance value(OHM)
GREEN/EARTH	290 ±20%
YELLOW/EARTH	0.4 ±20%

HANDLING PRECAUTIONS FOR FLYWHEEL

1. No use of hammer when mounting or removing from the engine
2. Use only the specified puller when removing from the engine
3. Every kind of impact must never be applied: the ferrite segments may be damaged.

FLW 6008 STANDARD PERFORMANCE



SPECIFICATIONS

Storage temperature -30 ~ +80°C
Operating temperature -10 ~ +80°C
Allowable temperature SCR (AC) Junction Max +125°
SCR (DC) Junction Max +125°
Condenser surface Max +105°

Leak current Max 0.1 mA
Insulating resistance Min 50MΩ

Maximum regulate current

(AC) Max 9 Aave
(DC) Max 5 Aave

RELIABILITY

- Satisfy with the electrical characteristics each reliability testing
- Mechanical shock 980m/s³ (100G). Shocked two times in each or X,Y and Z directions.
- Temperature cycling 100 cycles each consisting of +100°C 1 hour and -20°C 1 hour in atmosphere
- Vibration 196 m/s² (20G), 50 to 500 Hz/15 minutes log sweep for 4 hours in each of X, Y and Z directions
- Operate acceleration AC 5 Aave, DC 3Aave, 500 cycles each consisting of 30 min. ON/30 min OFT.
- Salt splay 5% salt water immersion 96 hours
- Weight 48 g

ELECTRICAL CHARACTERISTICS

Regulate voltage (AC) 12.7 ±0.5 Vrms (Battery full night circuit, 5000 rpm Ta=25°C Temp. coefficient max ±8mV/°C)
Regulate voltage (DC) 14.5 ±0.5 Vrms (Battery full day circuit, 5000 rpm Ta=25°C Temp. coefficient max ±12mV/°C)