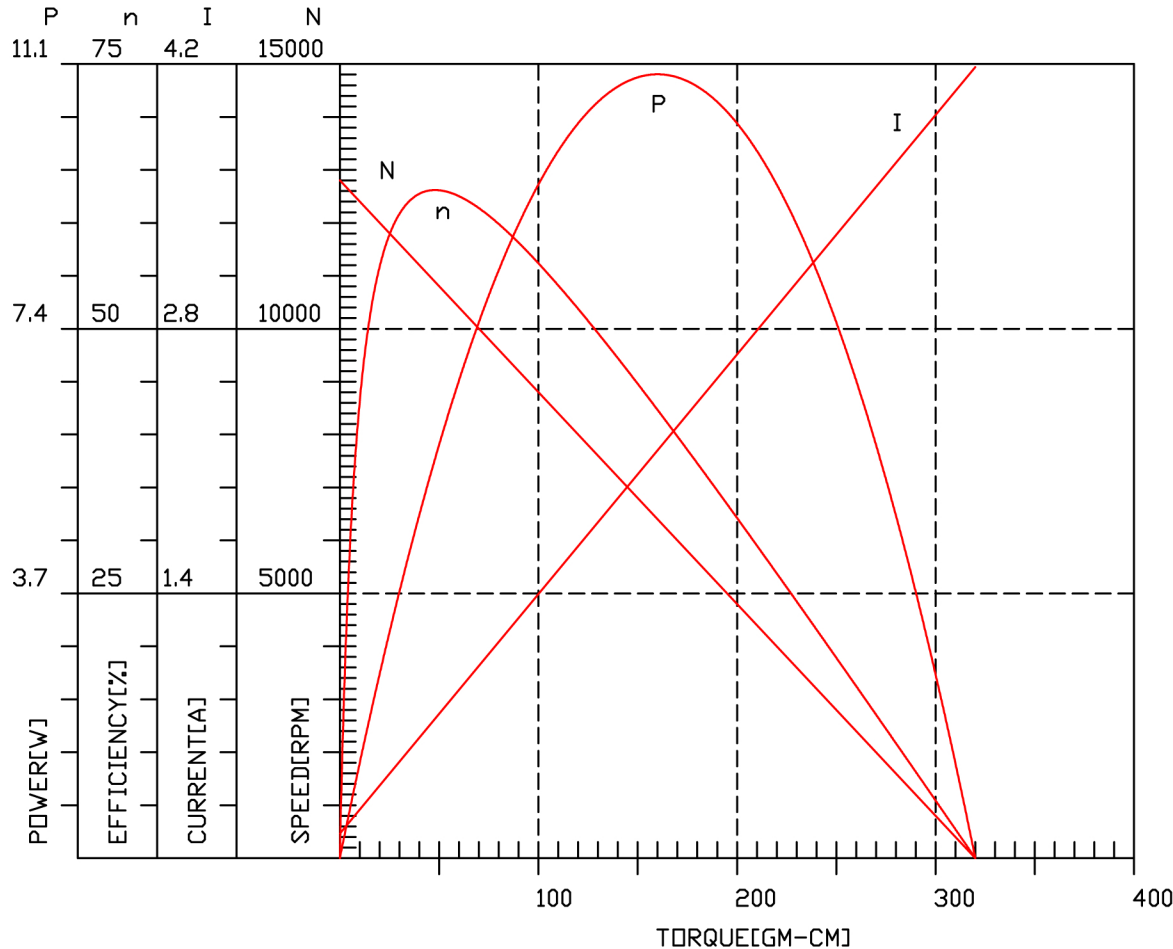


MOTOR PERFORMANCE CURVES AND CHARACTERISTICS

High Torque Generator



Rated Voltage: DC 12.0 V

Rated load: 45g-cm

PERFORMANCE:

AT NO LOAD:

SPEED : 12800 RPM
CURRENT : 0.13 AMP

AT STALL:

TORQUE : 320 GM.CM
CURRENT : 4.183 AMP

AT MAXIMUM EFFICIENCY:

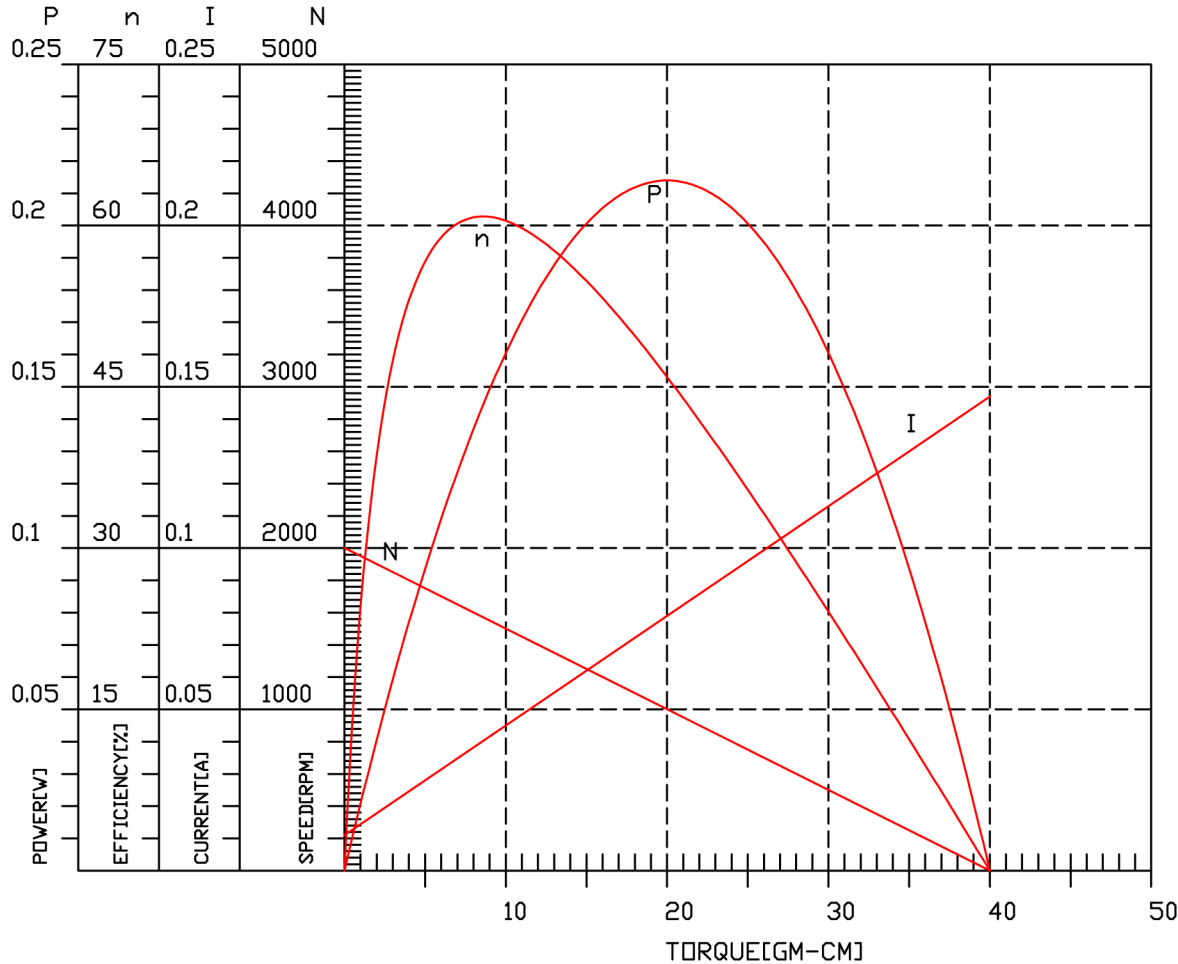
EFFICIENCY : 63.098 %
SPEED : 10879 RPM
TORQUE : 48 GM.CM
CURRENT : 0.738 AMP
OUTPUT : 5.588 WATTS

AT MAXIMUM OUTPUT:

SPEED : 6400 RPM
TORQUE : 160 GM.CM
CURRENT : 2.156 AMP
OUTPUT : 10.956 WATTS

MOTOR PERFORMANCE CURVES AND CHARACTERISTICS

Wind Turbine Generator



Rated Voltage: DC 5.9 V

Rated load: 10.0g-cm

PERFORMANCE:

AT NO LOAD:

SPEED : 2000 RPM
CURRENT : 0.011 AMP

AT STALL:

TORQUE : 40 GM.CM
CURRENT : 0.147 AMP

AT MAXIMUM EFFICIENCY:

EFFICIENCY : 60.851 %
SPEED : 1569 RPM
TORQUE : 8.6 GM.CM
CURRENT : 0.040 AMP
OUTPUT : 0.144 WATTS

AT MAXIMUM OUTPUT:

SPEED : 999 RPM
TORQUE : 20 GM.CM
CURRENT : 0.079 AMP
OUTPUT : 0.214 WATTS