

## Permanent Magnet DC Motor MY1020



Model	MY1020		
Specifications	500W 24V/36V/48V	750W 36V/48V/60V	1000W 36V/48V
Unload speed/rpm	3150	3500	3700
Unload current/A	≤2.5/2.2/2.0	≤2.5/2.2/2.0	≤2.5/2.2
Rated speed/rpm	2500	2800	3000
Rated torque/N.m	1.9	2.8	3.2
Rated current/A	≤26.7/17.8/13.4	≤26.7/20.0/16.0	≤35.6/26.7
Frequency/%	≥78	≥78	≥78
Application	Electrical scooter , SUVs		

Product Type: Brush DC Motor

Model: MY1020,

Main Application Range: Electric Scooter ;

This motor varies from 500W to 1KW. High Speed and Un-gearred Brush DC Motor. Suitable for scooters or bikes and trikes. You would use these in a setup where you wanted to retain the original gearing.

These have also proven popular as a pump for either water or hydraulics. And other machine devices.

## Parameter

Model	specification	unloaded			Rated loaded					
		Voltage V	Speed rpm	Current A	Torque N.m	Speed rpm	Current A	Power W	Efficiency $\eta$	Wheel
MY1020	500W24V	24	3150±5%	2.5	1.90±5%	2500±5%	≤26.7	500	≥78%	sprocket
	500W36V	36	3150±5%	2.2	1.90±5%	2500±5%	≤17.8	500		
	500W48V	48	3150±5%	2.0	1.90±5%	2500±5%	≤13.4	500		

Model	specification	unloaded			Rated loaded					
		Voltage V	Speed rpm	Current A	Torque N.m	Speed rpm	Current A	Power W	Efficiency $\eta$	Wheel
MY1020	750W36V	36	3500±5%	2.5	2.80±5%	2800±5%	≤26.7	750	≥78%	sprocket
	750W48V	48	3500±5%	2.2	2.80±5%	2800±5%	≤20.0	750		
	750W60V	60	3500±5%	2.0	2.80±5%	2800±5%	≤16.0	750		

Model	specification	unloaded			Rated loaded					
		Voltage V	Speed rpm	Current A	Torque N.m	Speed rpm	Current A	Power W	Efficiency $\eta$	Wheel
MY1020	1000W36V	36	3700±5%	2.5	3.20±5%	3000±5%	≤35.6	1000	≥78%	sprocket
	1000W48V	48	3700±5%	2.2	3.20±5%	3000±5%	≤26.7	1000		

## Performance data:

transmission	chain sprocket (11 teeth, pitch 1/4"=6.35 mm), exchangeable, fixation nut
shaft diameter	10 mm (milled groove both-sided 1.5 mm)
efficiency	≥78%
Mechanical Life: Around 5000 hours, (Brush-excitation, the carbon brush have abrasion, it can change one time for one year. 5000hours is no problem)	

## Further attributes:

- carbon brushes, 4pcs
- ball bearing
- Ingress Protection Rating IP-Code: IP33
- CE certified
- both sides turning

**External dimensions:**

housing length	13.4 cm
housing width / diameter	10.6 cm
total height (with plate)	11.4 cm

**Plate dimensions:**

length	120 mm (500w/750w) 150mm (1000w)
width	73 mm
lengthwised hole distance	99 mm
widthwised hole distance	57 mm