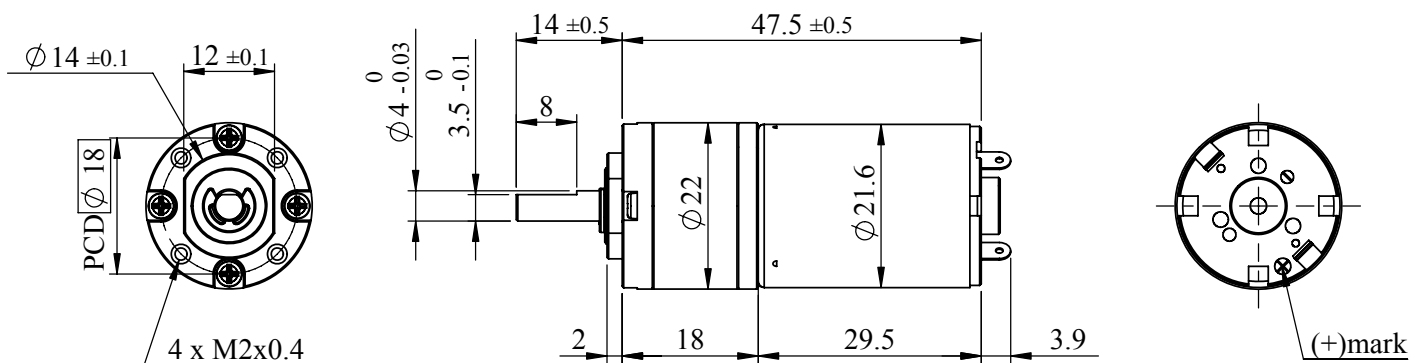


### DIRECTION OF ROTATION



(unit:mm)

### A. Operating Conditions:

1	Operating Voltage Range	6~12	VDC	4	Operating Temperature	-10~+60	°C
2	Rated Voltage	12	VDC	5	Storage Temperature	-30~+85	°C
3	Rated Load	0.54	kgf-cm	6	Test Position	Horizontal	~

### B. Electrical Characteristics:

1	Max. No-load Current	0.18	A	6	Max. Stall Current	4.9	A
2	No-load Speed	730 $\pm$ 70	rpm	7	Insulation Resist.(500V)	20	M $\Omega$
3	Rated-load Current	0.65	A	8	Dielectric Strength	250	VAC
4	Rated-load Speed	602 $\pm$ 60	rpm	9	Motor Brush Type	Graphite	~
5	Min. Stall Torque	2.7	kgf-cm	10	Output Power at Max.Eff.	4.8	W

### C. Mechanical Characteristics:

1	Gear Type	Planetary	~	7	Max. Shaft Radial Load	1.5	kgf
2	Gear Ratio	52/855	~	8	Max. Shaft Runout	0.05	mm
3	Gear Material	Mixed	~	9	Max. Shaft End Play	0.20	mm
4	Rated Tolerance Torque	3	kgf-cm	10	Bearing Type	Sleeve	~
5	Moment. Tolerance Torque	9	kgf-cm	11	Net Weight	82 $\pm$ 5	grams
6	Max. Shaft Axial Load	1.0	kgf	12	Extra Parts		