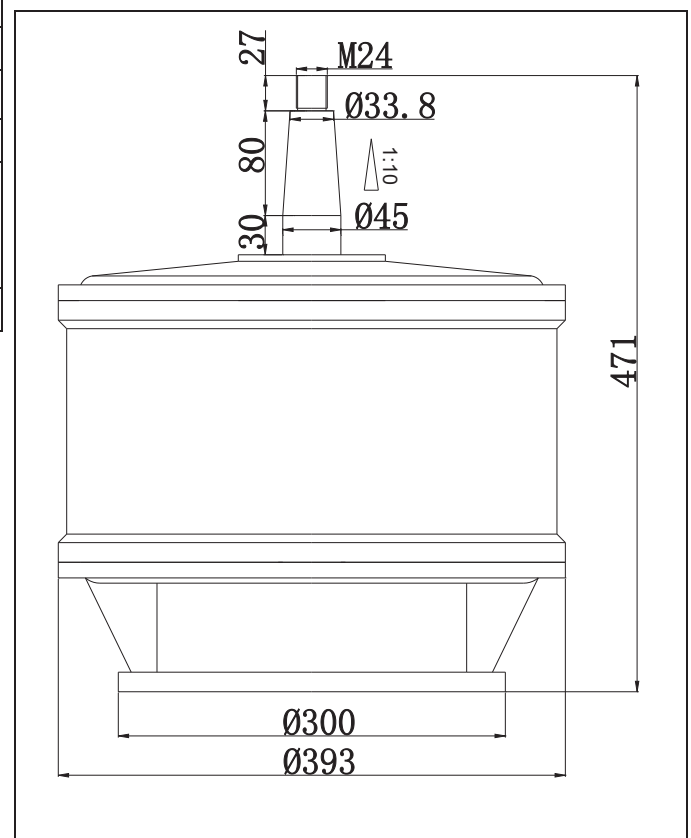


Parameter	
Rated power	1000W
Rated voltage (V)	24/48
Generator style	3-phase AC PM
Protection grade of generator	IP54
Material of the blades	Fiberglass-Reinforced Plastics
Start up wind speed (m/s)	2.5
Rated wind speed (m/s)	10-11
Working wind speed(m/s)	3-25
Survival wind speed(m/s)	40
Rotation speed (rpm)	50
Number of blades (pcs)	5
Diameter of wind rotor (m)	1.8
Blades length (mm)	1830
Blades width (mm)	410
Tower hight (m)	8
Guy cable tower typ (mm)	φ 114*6
Controller and inverter	advanced wind & solar hybrid controller and pure sine wave inverter
Battery reference	12V100AH*4



**1KW Vertical Axis Wind Generator
Dimensions (aluminium)**



- generator style: permanent magnetism 3 phase AC
- generator material: NdFeB, F grade copper wire , cast iron/ aluminium
- rated rotate speed:50RPM
- rated voltage: 24VAC/48VAC
- weight: 96kg (cast iron) / 84kg (aluminium)
- start up torque:8.82Nm (cast iron) / 10.78Nm (aluminium)

1KW50RPM 48V Vertical Generator Design Data											
rpm	5	10	15	20	25	30	35	40	45	50	55
no-load voltage	8	16	24	32	40	48.2	56	64	72	80	88.3
load voltage (Vac)	5	9.9	15	19.8	24.7	29.5	34.3	39	43	48	52.7
load current (A)	1.2	2.5	3.7	5	6.2	7.4	8.6	9.8	11	12.1	13.2
output power(W)	10.1	42	95	167	260	373	505	654	820	1001	1197
torque (Nm)	37	70	102	135	166	198	228	258	287	315	341

Remark: The design load electric resistance of above data is 2.3 Ω.