Technical Data

**Operation Data**
- Rated Power: 1000 kW
- Hub Height: 60 m/69 m
- Power Regulation: Blade-Pitch Control
- Cut-in Wind Speed: 4.0 m/s
- Rated Wind Speed: 13.5 m/s
- Cut-out Wind Speed: 25 m/s (10 min. Ave.), 30 m/s (Instantaneous)
- Survival Wind Speed: 70 m/s
- Yaw System: Active

**Rotor**
- Number of Blades: 3
- Material: GRP
- Diameter: 57 m
- Swept Area: 2,550 m²
- Rotational Speed: 21 rpm

**Gearbox**
- Type: 3 Stage (1 Planetary, 2 Parallel)
- Gear Ratio: 1:85.7/1:71.4 (60 Hz/50 Hz)

**Generator**
- Type: Induction Generator (4 Pole Type)
- Voltage: 600 V/690 V (60 Hz/50 Hz)
- Frequency: 60 Hz/50 Hz
- Rated Speed: 1,800 rpm/1,500 rpm (60 Hz/50 Hz)
- Grid Connection of Generator: Soft Starter

**Safety System — Brake**
- Aerodynamic Brake: Blade Feathering
- Mechanical Brake: Disk Brake (High Speed Shaft)

**Tower**
- Type: Taper Monopole
- Height: 60 m (3 section type)
- Height: 69 m (3 section type)
Superior Technology for A Brighter Future

MITSUBISHI WIND TURBINE GENERATOR

MWT-1000

- Higher Production  - Well-proven Technology

for class 1 wind condition

Schematic Diagram

1. Blade  
2. Blade Bearing  
3. Front Capsule  
4. Rotor Head  
5. Main Bearing  
6. Main Shaft  
7. Coupling (Low Speed)  
8. Gear Box  
9. Coupling (High Speed)  
10. Hydraulic Unit  
11. L.O. Cooler (with Fan)  
12. Generator  
13. Wind Vane  
14. Lightning Rod  
15. Anemometer  
16. Hydraulic Pitch Link System  
17. Nacelle  
18. Tower

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