Product name:	Product code:
Wind Energy Generation Trainer	Antenna0001

Description

Wind Energy Generation Trainer

Technical specification

- Power conversion experiment using DC/AC converter
- PWM generator manufacturing practice
- Boost (Set Up) type manufacturing practice
- Buck (Step Down) type manufacturing practice
- Buck-Boost (Step Up /Down) type manufacturing practice
- CUK (Step Down) type manufacturing practice
- Trends & forecast of wind power generation

Functions :

- Measuring energy vs. number of blades
- Measuring energy vs. blade angle
- Measuring energy vs. the speed of blower
- Measuring blade rpm vs. load
- Power conversion circuit

Specifications :

- Blower : Rated voltage : 220V,
- Power consumption : 1060 W
- Diameter : 0.5m
- Voltage regulator : 220V AC, single phase
- Blade : Rotation diameter : 0.7m,
- Blade : 12 ea, support frame
- Generator : AFPM generator,
- Output : 500W, 500 rpm
- Load module : 200V / 50W halogen lamp 5 ea,
- LCD (rpm display)
- DC/AC converter : Input : 80V~150V,
- Output voltage : 220V AC, LCD
- AC load : AC lamp,
- Fan 220V AC / 12 W
- Battery : Rated output voltage : 12V / 12AH

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Wind Energy Generation Trainer

- Designed to allow indoor experiments for the principle of Wind Power Generation
- The system Is composed of blower, blade, load module, wind speed meter, DC/AC
- inverter, battery & quick charger
- Load & inverter modules are contained in a steel enclosure for safety purpose
- Blade support frame is provided to endure the wind pressure when wind is applied
- to the blade by the blower