## SPECIFICATIONS

### TURBINE
- Configuration: 3 blades, horizontal axis, downwind
- Rated power @ 11 m/s: 55 kW
- Applications: Direct grid-tied
- Rotor speed: 41 rpm
- Cut-in wind speed: 3.5 m/s (7.8 mph)
- Cut-out wind speed: 25 m/s (56 mph)
- Survival wind speed: 52 m/s (116 mph)
- Design lifetime: 30 years
- Overall weight: 3,990 kg (8,800 lbs)

### ROTOR
- Rotor diameter: 19.2 m (63 ft)
- Swept area: 290 m² (3120 ft²)
- Blade length: 9 m (29.5 ft)
- Blade material: Fiberglass / Epoxy
- Power regulation: Stall control (constant speed)

### GENERATOR
- Frequency: 60 Hz
- Voltage: 480 V
- Phase: Three phase
- Type: Induction generator

### BRAKE & SAFETY SYSTEMS
- Main brake system: Rapid fail-safe brake on high speed shaft
- Secondary safety system: Pitch control system (for over speed regulation) using passive spring loaded mechanism (patent pending)
- Automatic shut down triggered by:
  - Over speed
  - High wind speed
  - Grid failure
  - All other fault conditions

### CONTROLS
- PLC based: Includes remote monitoring software

### WARRANTY
- Turbine, controls: 5 years

### TOWERS
- Types and heights:
  - Standard Monopole 30.5 m (100 ft)
  - Standard Lattice 42.7 m (140 ft)
  - Custom heights available
- Maintenance Access:
  - Working space inside the nacelle
  - Top work platform and safety cable climbing system

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### POWER CURVE

#### ANNUAL ENERGY PRODUCTION (AEP)

#### WIND SPEED CONVERSION TABLE

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*Provided service and maintenance schedules are strictly followed*