

AWR Energy, Inc.

Diffuser Augmented Turbine (DAWT)

Specification Sheet



Product Information

AWR DAWT turbines run more efficiently than traditional open-bladed systems by extracting more energy from the wind. They can produce higher Annual Energy Output (AEO) from lower wind speeds which allows for lower height requirements and more placement options. Our lightweight and portable design is flexible for multiple applications and installations in areas such as cell towers, developing countries, military applications and other locations that currently rely on fossil fuels for power. Our DAWT design is also safer due to the shroud with no lunar or solar flicker, blade/ice throw and is avoidable to birds and bats.

Specifications

- **Model #** – AWR 2800
- **AEO Est. @ 14mph wind speed** – 2,887 kWh's/yr
- **Type** – Diffuser Augmented Wind Turbine (DAWT)
- **Swept Area** – 28ft² (2.6m²)
- **Swept Diameter** - 6ft (1.83m)
- **Shroud Color** – customizable upon request
- **Weight or Gravitational Load**– 266lbs
- **Max Axial Force Load** – 500lbs force
- **Alignment** – Self Orienting sealed bearing, Gearless with 2 moving parts
- **Mounting Options** – available upon request
- **Blades** – 3
- **Blade Construction** – Reaction Injection Molding (RIM)
- **Optimal Average Wind Speed** – 14 mph (6.3m/s)
- **Cut-in Speed** – Controller Specific
The lowest wind at which the turbine begins producing usable power
- **Cut-out speed** – N/A
- **Generator Rated Power** – 1 kW
- **Peak Power** – 1.1 kW
- **Grid Connection** – Inverter
208/240/277 V_{AC}
- **Battery Back-up** – 24 V_{DC} / 120 Ahrs
- **Braking** – Resistance dumpload/
Manual override for maintenance
- **Product Life** – 20 Years
- **Warranty** – 5 Year Limited
- **Certifications** – UL 1741 Electrical Equipment
- **Environmental Specs** – -20°F to 150°F
(-29°C to 66°C)

