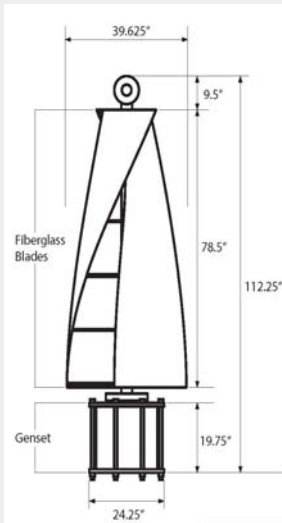


GUS 5 Vertical Axis Wind Turbine

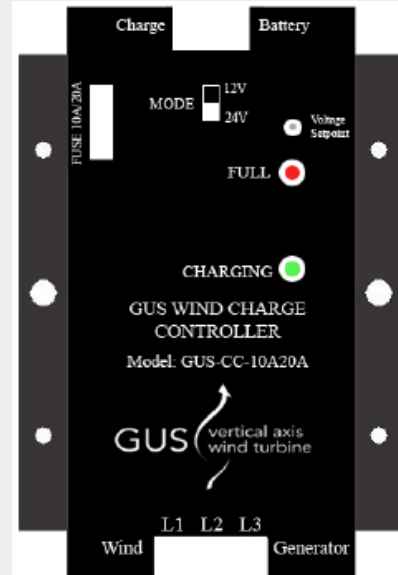
GUS 5 – Operating Range to 90 mph



Environmental Issues

GUS™ Wind Turbines are extremely quiet (records show no perceptible increase in noise levels in normal background conditions). They are perceived as a solid object even at high wind speeds and are therefore bird and bat friendly. For these reasons they are particularly well suited for use in populated centers, on buildings, public spaces, conservation and park areas. GUS™ turbines blend into the natural environment making them less intrusive. Custom colors and designs are available. Call your dealer.

Rated power	20A/24V, 50A/48V
Mast recommendation	Spun Concrete/metal/wood
Cut-in wind speed	4.25 mph
Rated wind speed	40 mph
Cut-out wind speed	none
Swept area	21.52 ft ²
Vane weight	40 lbs
Total weight of turbine	700 lbs
Rotor speed control	not required, electronic
Overspeed control	none required
Generator model	Gus 5kW
Generator construction	permanent magnet
Generator types	1-700 V/12,24,48V
Gear box	without gear
Main brake system	electronic
Charging controller	GUS CC 10A20A, CC 20A50A
Measured sound emission	53 dB @ 12'



CONNECTIVITY:

GUS Turbines produce three (3) phase AC current, which then is converted into DC by the WGU controller above. That DC power is then available for sending to a battery(ies) or a battery/inverter system for grid connection.

GUS wind turbines have been developed to meet the requirements of: long life span, efficiency, durability and minimum need of maintenance. They are available for stand alone or grid-connected applications, wherever energy is needed. Studies show that the GUS turbine design produces a minimum 30-50 % more electricity per year than propeller type turbines with the same swept area and take advantage of all winds; as changes in wind direction and turbulence do not effect them.