



Hydro Green Energy

PRODUCT SPECIFICATION SHEET Kensington Class Technology

Generic Device Specifications	
Power Conversion	Mechanical - Patented Shroud Chain Drive
Electrical Output	Synchronized with Grid
Foundation	Surface Suspension
Generator	Above Water on Platform
Dimensions	
Rotor Diameter	12 feet
Exit Duct Length	8 feet
Exit Duct Area	200 feet ²
Runner depth below surface	3 feet
Weight Breakdown	
Structural Steel	15,000 Pounds
Rotor	12,000 Pounds
Exit Duct	17,000 Pounds
Power	
Rotor Rotational Speed	21 revolutions per minute (rpm)
Rotor Tip Speed at 21 rpm	3.67 meters per second
Cut-in Speed	1.0 meter per second
Maximum Rated Speed	3.5 meters per second
Rated Electric Power	98 kW @ 3.5 m/s
Capacity Factor	Up to 100% - site specific
Availability Factor	>99.0 %
Turbine Coefficient of Performance [Cp]	0.62 at design flow