

Technical Regulations

The following information is a summary of the 2008/2009 A1GP Technical Regulations.

The A1GP Chassis

Weight:	Approx 720kg including driver, race ready (excluding fuel)
Front and rear suspension:	Double wishbone with pushrod operated coil over damper units.
Anti-roll bar:	Multi adjustable, quick change front and rear roll bars
Chassis:	Carbon fibre skins, aluminium honeycomb core. Tested to meet all applicable FIA crash safety standards
Bodywork:	Light weight composite bodywork
Gearbox:	Six-speed longitudinal sequential. Gear selection via a Magneti Marelli paddle shift system
Drive Line:	Tripod jointed driveshafts
Brakes:	Brembo carbon discs, six-pot aluminium calipers
Dampers:	Penske VBP-45, two-way adjustable
Wheels:	Front 13" dia. X 12" Rear 13" dia. X 14"
Steering:	Titan angle drive bevel and two-pinion ratio's
Steering Wheel:	280mm diameter carbon, with mounted LCD dash
Instrumentation and display:	Magneti Marelli mounted display unit Multi-channel logging facility for engineering analyse
Seat Belt:	FIA approved SABELT six-point safety harness
Fuel Cell:	ATL fuel cell approximately 150-litres capacity and designed to take up to 50 per cent ethanol
Clutch:	AP three-plate carbon/carbon with steel hub
Tyres:	Michelin control slick and treaded wet tyres

The A1GP Engine

Produced using some of the most advanced design and manufacturing technology in the world, the A1GP engine is specifically designed and manufactured by Ferrari S.p.A for use in the A1GP World Cup of Motorsport.

Configuration:	90 degree V8
Displacement:	4500cc
Width:	666.5 mm (max L&R cam covers width)
Height:	446(from bottom plane to max cam covers height)
Length:	569 mm (from front pulley bolt to rear plane engine block flange)
Weight:	160kg
Cylinder Block:	Die cast aluminium alloy
Cylinder Head:	Sand cast aluminium alloy Four overhead camshafts
Valve Train:	Four valves per cylinder
Engine Management:	Bosch MED 9.6
Injection:	Gasoline direct injection

Spark Plugs:	NGK
Fuel:	Shell E10 102 RON
Max Torque:	406 lbs ft 550 Nm
Max Power:	600 bhp 448 Kw

The PowerBoost System

Each car is equipped with a unique PowerBoost system, a mechanism to provide short bursts of increased power to create additional overtaking opportunities and action throughout the race.

By changing the engine's parameters, the system can give the driver additional power over a limited time during each race to take the A1GP Powered by Ferrari car above its standard 600 bhp

The PowerBoost is driver-activated by a button mounted on the steering wheel. The driver will be able to use this for a predetermined period during the Sprint and Feature races.