

ELECTRIC GOLF CAR



Designing a great golf car is like playing a great round: it's about controlling all the factors. From the advanced IntelliPower System™, with its state-of-the-art regenerative braking, to the ultra-reliable Trojan batteries, we're determined to leave nothing to chance. We're the only golf car manufacturer that designs and builds its own motor control unit and battery charger. No wonder we have the lowest maintenance costs in the business. Want to know more particulars? Keep reading and we'll tell you about many reasons to consider the YAMAHA YDR.



YAMAHA

SPECIFICATIONS



DIMENSIONS

OVERALL LENGTH	2395 mm (94.3 in)
OVERALL WIDTH	1200 mm (47.2 in)
OVERALL HEIGHT (Suntop)	1789 mm (70.4 in)
OVERALL HEIGHT (No Suntop)	1190 mm (46.9 in)
WHEELBASE	1640 mm (64.6 in)
FRONT WHEEL TREAD	870 mm (34.3 in)
REAR WHEEL TREAD	980 mm (38.6 in)
MINIMUM GROUND CLEARANCE	110 mm (4.3 in)

POWER SUPPLY / DRIVE TRAIN

MOTOR	Hitachi 48-volt high-efficiency, shunt wound motor with internal solid state tachometer
OUTPUT RATING	3.5 hp (2.6 kW) for 30 minutes
MOTOR CONTROL UNIT	Yamaha-built solid state microprocessor with high-efficiency MOSFET switching. 270 amp armature output, 20 amp field output
TRANSAXLE	EnduraDrive™ direct coupled transaxle equipped with high-precision helical gears, 12.49:1 drive axle ratio
BATTERIES	Four 12-volt Trojan T1275 Batteries
CHARGER	Yamaha-built automatic microprocessor-based high frequency switching-regulated charger with I.E.I.-type charging profile, an industry first. 17 amp DC max output at 48 volts, 5 amp 220 V AC. CE regulation certified

CHASSIS

FRAME	HybriCore™ Chassis features a robotically welded automotive ladder-style frame mated to a polypropylene structural floor. Frame components are protected with a multi-step full-immersion phosphate treatment, electro-deposition epoxy-based coating, and an electrostatically applied polyester/urethane powder topcoat
BODY	Custom-formulated thermoplastic olefin, painted with a two-part top coat of high-luster automotive-grade polyurethane
STEERING	Self-compensating double reduction helical rack-and-pinion, permanently lubricated with sealed, greaseless tie-rod ends
FRONT SUSPENSION	Tru-Trak II™ fully independent automotive-style strut suspension
REAR SUSPENSION	Unit swing arm with coil springs over hydraulic shock absorbers
BRAKES	Maintenance-free internal transaxle disc brake
SEATING	Seamless, fabric-backed vinyl bonded to pure, virgin foam contoured seat cushions and mated to a warp- and moisture-resistant polypropylene bottom, strengthened with plated steel inserts.
BUMPERS	Front and rear 5 mph energy-absorbing bumpers

PERFORMANCE

MAX FORWARD SPEED	24 km/h (15 mph)
MAX REVERSE SPEED	8.1 km/h (5 mph)
TURNING RADIUS	2.8 m (9.2 ft)

GENERAL

DRY WEIGHT (less batteries)	243 kg (536 lbs)
TIRE SIZE	18.00 x 8.50-8.00 (4-ply rating)
SEATING CAPACITY	2 persons
AVAILABLE PAINT COLORS	Glacier, Emerald, Garnet, Sandstone Metallic, Cobalt Metallic, Anthracite Metallic, Onyx Metallic
AVAILABLE SEAT & SUNTOP COLOR	Stone

STANDARD FEATURES

Largest Most Comfortable Seat in the Industry

Deep, supportive contours are intended to help hold occupants in place while the car is moving. Designed to accommodate occupants of all different heights and sizes, it's made of pure, supple foam bonded to a seamless, fabric-backed vinyl cover, and the polypropylene seat base is strengthened with plated steel inserts. Won't sag or warp, stands up to repeated pressure washings, and remains the most comfortable seat in the business despite daily abuse.



EnduraDrive™ Transaxle with Internal Disc Brake Technology

An industry first, inspired by the Yamaha ATV. A completely enclosed disc brake system that eliminates brake drums and shoes, needs only one brake cable, and is projected, based on extensive testing, to have an incredibly long life with essentially no maintenance.



ClimaGuard Top™ with Dual Gutters

Our top is wider and extends farther in the front for maximum occupant protection, and it's longer in the rear to give maximum protection without interfering with the clubs. It has the only 360° double rain channel in the industry, and its integrated water drain system has an exclusive clog-proof design. It's built for rattle-free stability and has integrated grab handles as well as universal mounting points for information holders and GPS systems. So who's afraid of a little rain?



Most Powerful 48-Volt Electric Motor in the Industry

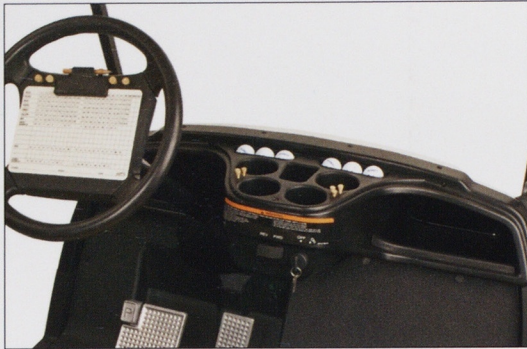
Manufactured by Hitachi, our electric motor is high quality, highly efficient, whisper quiet, and generates 3.5 horsepower, which beats anyone else's in the business. Its internal components are nickel-plated and stainless steel for corrosion resistance, and it even has its own internal solid state tachometer.

HybriCore™ Chassis

How do you make a chassis nearly 20% lighter and 2.5 times stronger? We mated an automotive, ladder-style, 100% robotically welded frame, protected by an 18-step paint process, with a polypropylene structural floor. Integrated into the floor, the battery box surrounds the batteries, eliminating a corrosion point. A self-contained pedal box gives the pedals top and bottom protection from dirt, debris, and stray golf tees.



STANDARD FEATURES



Automotive-Style Dash

The auto industry spent a hundred years getting this right, so why not use it? We gave it four cup holders to hold different-size cups; a center storage area for wallets, cell phones, and personal items; six ball holders; six tee holders; and a big, easy-to-clean storage compartment on each side.



Four 12-Volt Battery Configuration

Instead of six 8-volt batteries, we use four 12-volt batteries. It's more efficient and less expensive to maintain, and it also has fewer cables and terminal connectors. What's more, it's 57 pounds lighter than the old configuration. All the power with a lot less trouble.



Tru-Trak II™ Fully Independent Front Suspension

No other golf car has a suspension like this. We designed a maintenance-free suspension using automotive-style, coil-over-shock struts to minimize roll and deliver a smooth, comfortable ride. Sooner or later, some golfer will offer to trade you his car for it.



Exclusive Yamaha Genius PDA-Based Diagnostics and Programming

There's a reason we call it "Genius." A common PDA with an infrared wireless connection allows for communication with the motor control unit on YDR. In addition, it enables customization of the speed and regenerative braking, using 25 settings to match your course and terrain. It stores and displays battery and vehicle data such as AMP hours, miles, and running hours, as well as diagnostic and troubleshooting information, helping you get peak performance and maximum profitability from your fleet.