



# BSR 2.5 GEN ELECTRIC RENTAL KART

BSR R3 (ADULT)

Electrify your rental track with a fleet of advanced karts that deliver top-tier performance, minimal downtime, and low operating costs. Designed for multi-level and high-traffic tracks, this kart features a triple-stage impact absorption system for extended durability and a next-gen quick swap battery system for uninterrupted operation. Enjoy predictable maintenance expenses, reduced energy consumption, and a premium ride experience that keeps customers coming back. Invest in the future of karting with a smarter, more efficient fleet solution.

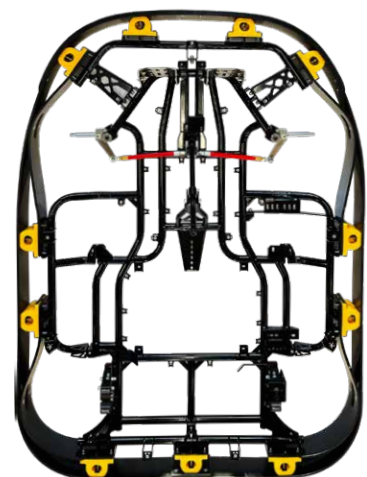
## BSR KARTING CORE ADVANTAGES

- **BSR - 2.5 GEN CHASSIS**  
The high-stress-resistant 32mm Chromoly steel frame with reinforced joints ensures exceptional durability for multi-level climbs and high-speed impacts on outdoor tracks.
- **PROTECTION SYSTEM**  
The three-stage impact system cushions minor shocks and absorbs heavy impacts, directing deformation to easily replaceable protection elements, protecting the main frame.
- **DRIVER ADJUSTMENT**  
The adjustable seat and pedal system accommodate drivers from 1.3 to 2.1 meters tall, making it suitable for ages 10 and up, including seniors. For smaller drivers, seat inserts are recommended.
- **BATTERY SWAP SYSTEM**  
The lightweight Quick Swap Battery System optimizes battery management, minimizing fleet size while maximizing kart usage. It supports endurance races and enhances thermal control by charging in a dock while the kart operates on a second battery.
- **BATTERY LIFETIME**  
Integrated smart battery management system and quick swap battery dock optimize battery control for each track, extending battery life cycles and significantly reducing degradation. Properly optimized cycles can extend battery lifespan by up to three times.
- **CHARGING DOCK**  
The charging dock provides superior battery thermal management and fast charging. LED panel visualizations allow easy monitoring, ensuring a seamless swapping process for administrators with no technical expertise.



## BSR 2.5 GEN KARTING SPECIFICATION

**CHASSIS:** 32mm Chromoly steel frame  
**PROTECTION:** 10-20mm PE plastic with 40mm polyurethane shock absorbers  
**BODY:** ABS plastic 4-5mm  
**POWER:** Up to 12 kW / 16 Hp (adjustable for each track by software)  
**BATTERY SWAP:** Quick Swap System (replace in less than 30 sec.)  
**DRIVING TIME:** Up to 50 min (Depends on the power level and track specifications)  
**BRAKES:** Freeline hydraulic, 200mm disc (with pressure sensor)  
**SENSORS:** Overheating, Braking, Battery Lock Protection  
**REAR-AXLE:** 40x1000mm  
**TRANSMISSION:** Timing belt (30x960x8M)  
**RIMS:** Alloy (standard)  
**SEAT:** Adjustable with head defender  
**STEERING WHEEL:** 320mm Diameter  
**KART WEIGHT:** 150kg (including battery)



\* The base package includes a fully equipped electric go-kart, ready for use, with a battery included. Tires, the charging dock system, and additional features are not included, allowing each track to customize according to its needs.

# EXTRA KARTING FEATURES

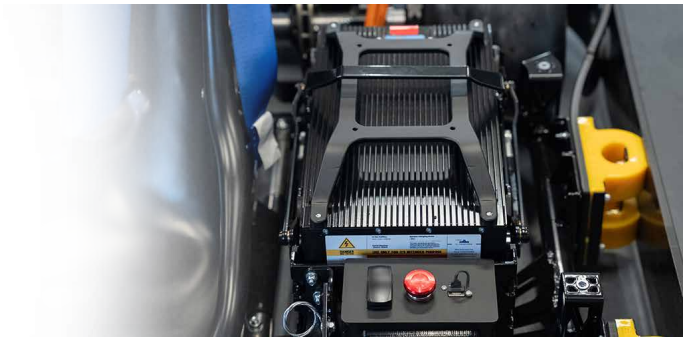
- REAR BRAKING LIGHTS:** Red LED Lights
- FRONT HEADLIGHTS:** White LED Lights
- SEAT BELT:** Adjustable 3 point
- SAFETY REMOTE CONTROL:** Up to 8 power levels (adjusted by track owners)
- BRAKES:** Regenerative braking (adjusted for each track)
- STICKERS:** Custom stickers for your project or sponsors



\* Additional equipment is an optional feature that can be installed on the go-karts as needed, depending on project specifications and requirements.

# POWER UNIT DATA

- MOTOR POWER:** Up to 12 kW / 16 hp (adjustable by software)
- MOTOR TORQUE:** Up to 60 Nm
- REAR-AXLE TORQUE:** Up to 180 Nm
- MOTOR RPM:** Up to 3800 RPM
- MOTOR EFFICIENCY:** Up to 92%
- MOTOR TYPE:** PMAC Brushless Motor
- TOP SPEED:** Up to 85 km/h (adjustable by gear ratio)
- ACCELERATION:** 0-60 km/h in ~4 sec.
- COOLING:** Air Cooling (no need maintenance)
- THROTTLE:** BSR Gen 5.0
- NOMINAL VOLTAGE:** 50.4V
- DATA:** CAN Communication



\* The Power Unit system includes a 1-year unlimited-hour warranty. The specified power parameters represent the maximum possible output, which can be adjusted in coordination with the track owner. In most cases, these parameters are optimized to meet track requirements for the best performance, meaning the final product specifications may vary.

# BATTERY SYSTEM DATA

- NOMINAL CAPACITY:** 64Ah (3.2kWh)
- SWAPPING TIME:** Under 30 sec.
- FAST CHARGING:** ~24min for 50% (daily operations for 1:1 Charging)
- FULL CHARGING:** 50min
- TECHNOLOGY:** Li-Ion (Samsung Battery Technology)
- SAFETY:** Integrated BMS, Fuse, Temperature management
- INDICATORS:** State of Charge (SOC) and Temperature LED
- NOMINAL VOLTAGE:** 50.4V
- DISCHARGE:** Up to 250A
- IP RATING:** IP65 (for operation in rainy conditions)
- COOLING:** Air Cooling (no need maintenance)
- WEIGHT:** 18.5Kg (full pack)
- APP ACCESS:** Service Monitoring System by BSR
- AFTER LIFE:** Factory Capacity Restoration Service
- DATA:** CAN Communication



\* The battery includes a 1-year unlimited-hour warranty, ensuring that degradation does not exceed 30% of its initial capacity during the warranty period. Any factory defects or faulty components that prevent the battery from meeting performance standards will be resolved.

# CHARGING DOCK DATA

- CHARGING POWER:** Up to 80ADC (4.7kW)
- INPUT VOLTAGE:** 90-250VAC Single Phase (optional 3 phase)
- OUTPUT VOLTAGE:** up to 58.8VDC
- EFFICIENCY:** 93%
- MONITORING:** LED panel for battery charge status
- COOLING:** Air Cooling (Improves battery performance)
- DATA:** CAN Communication



\* A fully independent system that communicates with the battery and handles all necessary functions to efficiently prepare it for the next sessions. The LED panel displays battery readiness for the operator.