

**BSR2.0**  
ELECTRIC POWER

**18kW**

# **RACING KART**



# ELECTRIC KART POWER UNIT GUIDE



## BSR 2.0 ELECTRIC RACING KART POWER UNIT 1,5 kW **BAMBINO**

<b>AGE</b>	4-7
<b>ELECTRIC POWER</b>	PMAC 1,5kW brushless motor with air cooling
<b>SPEED &amp; ACCELERATION</b>	Max speed up to 45km/h (limited by software)
<b>RACING TIME</b>	With full power 30+ min Battery replacement time 30 sec

<b>POWER UNIT STARTING AT</b>	<b>1800 EUR</b>
<b>FULL KART STARTING AT</b>	<b>3300 EUR</b>



## BSR 2.0 ELECTRIC RACING KART POWER UNIT 7 kW **MICRO**

<b>AGE</b>	6-11
<b>ELECTRIC POWER</b>	PMAC 7kW brushless motor with air cooling
<b>SPEED &amp; ACCELERATION</b>	Max speed up to 90 km/h (adjustable) Max RPM 3200 / max torque 30 Nm (instant)
<b>RACING TIME</b>	With full power 15 min Battery replacement time 30 sec

<b>POWER UNIT STARTING AT</b>	<b>3800 EUR</b>
<b>FULL KART STARTING AT</b>	<b>5800 EUR</b>



## BSR 2.0 ELECTRIC RACING KART POWER UNIT 18 kW **JUNIOR**

<b>AGE</b>	11-15
<b>ELECTRIC POWER</b>	PMAC 18kW brushless motor with air cooling
<b>SPEED &amp; ACCELERATION</b>	Max speed up to 110 km/h (adjustable) Max RPM 3200 / max torque 40 Nm (instant)
<b>RACING TIME</b>	With full power 15 min Battery replacement time 2 min

<b>POWER UNIT STARTING AT</b>	<b>5800 EUR</b>
<b>FULL KART STARTING AT</b>	<b>8300 EUR</b>



## BSR 2.0 ELECTRIC RACING KART POWER UNIT 25 kW **SENIOR**

<b>AGE</b>	15+
<b>ELECTRIC POWER</b>	PMAC 25kW brushless motor with air cooling
<b>SPEED &amp; ACCELERATION</b>	Max speed up to 120 km/h (adjustable) Max RPM 4200 / max torque 100 Nm (instant)
<b>RACING TIME</b>	With full power 15 min Battery replacement time 2 min

<b>POWER UNIT STARTING AT</b>	<b>7800 EUR</b>
<b>FULL KART STARTING AT</b>	<b>10800 EUR</b>



## BSR 2.0 ELECTRIC RACING KART POWER UNIT 25+ kW **SENIOR**

<b>AGE</b>	15+
<b>ELECTRIC POWER</b>	PMAC 29kW brushless motor with air cooling
<b>SPEED &amp; ACCELERATION</b>	Max speed up to 135km/h (adjustable) Max RPM 4200 / Max torque 120 Nm (instant)
<b>RACING TIME</b>	With full power 10+ min Battery replacement time 2 min

<b>POWER UNIT STARTING AT</b>	<b>9800 EUR</b>
<b>FULL KART STARTING AT</b>	<b>12800 EUR</b>



## SPECIFICATION

<b>Chassis:</b>	BSR/BirelArt RY 32-S14 OK – OKJ 2022
<b>Body:</b>	Standart BirelArt RY 32-S14 bodywork
<b>Seat:</b>	Freeline Kart Components (Size 1; 1+; 2; 3; 4)
<b>Steering wheel:</b>	BSR/320mm
<b>Battery:</b>	28Ah/96V Li-Ion (autonomy 15 min)
<b>QSB:</b>	Quick swap system (replace in less than 2 min.)
<b>Power:</b>	18kW (Limited by software)
<b>Top speed:</b>	Up to 110 km/h
<b>Acceleration:</b>	0-100km/h in ~5.0 seconds
<b>Charger:</b>	AC/DC 2kW (110-240V)
<b>Brakes:</b>	Rear brakes
<b>Transmission:</b>	Chain 428 (14/26T)
<b>Rims:</b>	Alloy (standard)
<b>Kart weight:</b>	100kg (without tires)



<b>Base price included:</b>	1x Fully-assembled chassis with 7kW power unit 1x Battery 28Ah/96V 1x Battery Charger 2kW 1x Standart BSR sticker set
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### Extra features:

<b>Stickers:</b>	Custom stickers
<b>Tools:</b>	A toolbox for kart maintenance
<b>Race ready kart:</b>	Kart with already mounted tires
<b>BSR merchandise:</b>	Beach flags, kart mats, hats, jackets, t-shirts, polo shirts, kart trolley.

# POWER DATA

<b>Motor power:</b>	18kW (26.8Hp)
<b>Motor torque:</b>	60Nm
<b>Rear-axle torque:</b>	117.0 Nm
<b>Gear ratio:</b>	1:1.7 (14T/24T/428)
<b>Motor RPM:</b>	4200 RPM
<b>Top speed:</b>	Up to 110 km/h
<b>Acceleration:</b>	0-100 km/h in ~5 sec.
<b>Throttle:</b>	Hall sensor (durable)
<b>Cooling:</b>	Air (Aluminium radiator)
<b>Battery:</b>	Li-Ion with BMS and physical fuse protection
<b>Driving range:</b>	15 min. (real-life test results)
<b>Charger:</b>	AC(90-240V) to DC (48V)
<b>Charging time:</b>	30-60 min. (20%-80%)
<b>Warranty:</b>	1 year unlimited driving hours
<b>IP level:</b>	64



Included in power unit:

ELECTRIC MOTOR, CONTROLLER, BATTERY, MOUNTING PARTS, BOLTS, INSTALLATION INSTRUCTION

# BATTERY



- Quick swap system, replace it in less than 2 min
- 1x BMS and physical fuse protection
- Air cooling (Aluminum radiators)
- Capacity 35Ah
- Discharge peak 250A (continuous 180A)
- Charging power 2kW (20A/96V)
- Weight 18kg
- 1-year unlimited cycle warranty
- Maintenance service after the warranty time

# MOTOR

- PMAC brushless motor
- Air cooling (Aluminum radiators)
- Operating voltage 96V
- RPM max 4200
- Motor efficiency 92%
- 1-year unlimited warranty
- Maintenance service after the warranty time



# CHARGER



- Input voltage 90–265V
- Rated power 2kW
- Efficiency 93%
- Output Voltage: 96V
- Output Current: 20A
- 100% Automated system
- 1 year unlimited warranty
- Maintenance service after warranty time

## MORE INFO

BSR 2.0 Power Units are designed so that they can be quickly and efficiently installed on any chassis instead of the standard internal combustion engine within 10–15 minutes without additional equipment and knowledge. All that must be taken into account is the location of fastening and the dimensions of the components. Fastenings are designed so that they can be adapted to different chassis. It is possible to develop specific fastenings on request.

## OTHER OPTIONS

1,5kW



BABY

7kW



KIDS

25kW



SENIOR