

TEAM ORION



2012 NEWS

THE NEW TOUCH CHARGER TECHNOLOGY



3" 400X240 COLOR TOUCH SCREEN

FOR LIPO, LIFE, LIION, NIMH, NICD & PB BATTERIES

DUAL INPUT 11-18VDC AND 100-240VAC

CHARGE SETUP ASSISTANT

USER FRIENDLY TOUCH SOFTWARE

The Advantage Touch charger is a new generation of high tech charger from Team Orion. Equipped with a touch sensitive color LCD screen and specialized touch software, it's a brand new experience in the field of battery charging.

SPECTRA

240x400 PIXEL TFT COLOR TOUCH SCREEN

SPECTRA TFT-LCD Color Touch screen

On a device such as this one, the screen is a very important part of the charger. The 3" 400x240 color TFT-LCD display combined with our specialized ATTS touch software offers an exclusive "touch" experience for the user. Selected high grade components ensure a flawless and intuitive experience, the information is clearly displayed on the screen and the touch screen precisely registers the user input. Thanks to it's "touch" input, the charger reaches new levels of usability and interactivity.



HPC

HIGH PRECISION CHARGING PROCESSOR

HPC High Precision Charging Processor

It's important that the charger gives the battery a complete charge, no matter the type and original status of the battery. Through extensive R&D we have found the best charge and discharge profiles to ensure a safe and reliable charge and discharge, time after time. The high precision charging circuitry manages the charge and discharge with unprecedented levels of accuracy, delivering optimal battery performance charge after charge.

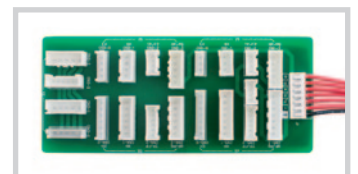
ORI30185 EU-Version
ORI30186 UK-Version
ORI30187 USA-Version
ORI30188 CH-Version
ORI30189 JP-Version
ORI30190 AU-Version

ATTS

ADVANCED TOUCH TECHNOLOGY SOFTWARE

ATTS Advanced Touch Technology Software

The ATTS software was specifically designed for the Advantage charger, its interface offers both ease of use for beginners and customizability for experienced users. All of the information is clearly displayed on the high-resolution color screen, this means that having to read lengthy user manuals is a thing of the past, the charger offers a very intuitive experience. To make things even simpler for users with limited knowledge, a setup assistant helps the user to setup to charger.



The new 4-in-1 XH, TP/FP, EH and HP/PQ balancing board is included with the charger.

Features

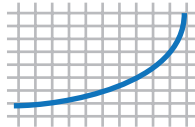
- Touch screen charger with 400x240 pixel TFT-LCD screen.
- Charges 1S to 6S LiPo, LiFe and Lilon batteries, 1 to 15 cell NiMh/NiCd batteries, 2 to 20V lead batteries
- Charge current 0.1-5A (50W max)
- Discharge current 0.1-1A (5W max)
- Dual power input, 100-240VAC, 11-18VDC
- Innovative ATTS Touch optimized software
- High precision HPC charge system
- Setup Assistant
- Graphic data display
- Functions : charge, discharge, cycle, storage, balancing
- Balance only function mode
- Switchable balance function
- External balancing board for XH, TP/FP, EH, HP/PQ type connectors
- TRX, Deans, Tamiya, BEC, Futaba and crocodile clips charge cables included
- Multi-language interface
- Optional temp probe available for temperature monitoring
- Adjustable delta-peak
- Switchable trickle charge
- Compact size



ADVANCED BALANCING

Advanced Balancing

The Advantage Touch charger is equipped with a lithium battery balance function. This function enables you to check the status of your lithium batteries and if required it can balance the cells without having to use the charge or discharge functions of the charger. A graphic display and data such as voltage and IR for each cell are displayed on the screen indicating their current status.



GRAPHICS ENGINE

Graphics Engine

Thanks to its advanced software and hardware capabilities, the charger can display the current charge and discharge status with a graphic. Graphics give a visual reading of data which can help you better visualize the current state of the battery. You can check the battery charge and discharge voltage curves which may indicate eventual inconsistencies with the battery function.



DUAL INPUT POWER

Dual Power Input

The Advantage Touch charger can use AC and DC current as a power source. This means that you can power the charger from a 100-240VAC mains power outlet or a 11-18VDC power source (like a car battery). This extra flexibility means that you do not need two different charger or to carry a power supply around with you.



CHARGE ASSISTANT

Setup Assistant

Adjusting the correct parameters into the charger is not an easy task for those that are not familiar with charging batteries. To help out these users, the Advantage Touch charger features a setup assistant which allows you to easily setup the charger parameters by following the on-screen information.



INTEGRATED POWER SUPPLY

Integrated Power Supply

The Advantage Touch charger features a compact sized case, even though, we have managed to integrate and AC/DC power supply into the case. The main advantage of this is that you don't need to buy a separate power supply along with the charger and you can plug the charger directly into a mains power outlet.

Packaging contents

- Advantage Touch Charger with power cord
- TRX, Deans, Tamiya, BEC, Futaba and crocodile clips charge cables
- USB cable
- 4-in-1 Balancing Board (XH, TP/FP, EH and HP/PQ)
- User manual and Quick Start user guide



UPDATABLE FIRMWARE VIA USB CONNECTION

USB Port

The charger is equipped with a mini USB port. Thanks to this port, you can connect your charger to a computer and update its software. Updated software can improve the capabilities of the charger, it also helps it maintain its original value since you can always have the latest functionalities. Software updates can be downloaded from our website www.teamorion.com/touch.

Technical Specifications

Input	11-18VDC / 100-240VAC
Battery types	NiMh/NiCd 1-16 cells LiPo/LiFe/Lilon 1-6 cells Pb 2-20V
Charge current	0.1-5A (50W max)
Discharge current	0.1-1A (5W max)
Size	L170xW158xH45mm
Weight	662g



MULTI-LANGUAGE SOFTWARE

Multi-Language Software

To improve the user-friendliness of the Advantage Touch Charger, we have translated the software in different languages. The charger interface is in English Language by default and it can be changed to German, French, Italian and Japanese. Translated software can be downloaded from our website www.teamorion.com/touch.

THE EVOLUTION: CARBON PRO WTS



- INNOVATIVE WEIGHT TRANSFER SYSTEM
- CARBON PRO 90C LIPO TECHNOLOGY
- OFF-CENTER CELLS ALLOW BETTER WEIGHT POSITIONING
- WEIGHTS MADE OUT OF ALUMINUM (22G) OR BRASS (69G)
- COMPACT SIZE AND LIGHTWEIGHT

Team Orion was the first company to encase LiPo cells inside a plastic hardcase to protect them from impacts and render them more user friendly. Now we have evolved that design once more and bring you the WTS "Weight Transfer System".



Features

- Newly designed carbon look case
- Compact size and lightweight
- Latest 90C LiPo technology
- 400mAh capacity, ideal for off-road use
- Off-center cells allow better weight positioning
- 3 weight slots for maximum adjustability
- Weights made out of aluminum (22g) or brass (69g)
- Adjustable weight from 204g (w/o weights) to 411g (w/ 3 brass weights).
- Connectors located at the front and rear of the battery for easy connection
- Switched battery polarities between front and rear to avoid misconnections

In many of today RC race cars, weight distribution is an important factor in the setup of the car and racers move the battery forwards or backwards to change the weight distribution. The problem is that the size and disposition of current batteries limits the effectiveness of this setting. To remove this limitation, we have developed a new battery case that uses shorter cells and is equipped with three compartments to fit weights. Thanks to this you can not only modify the position of the battery, but also its total weight and the disposition of that weight within the battery case.



ORI40510 Carbon Pro WTS Weight Set

ORI40511 Carbon Pro WTS Battery Cover

ORI14053 Carbon Pro WTS
4000mAh 7.4V 90C
w/ Weight Set

3S LIPO BATTERIES. THE EASY WAY!



3 CELLS FOR UNPARALLELED PERFORMANCE

COST FRIENDLY LIPO

25C DISCHARGE RATE

3200, 3500 AND 4300MAH CAPACITY

ALSO AVAILABLE WITH THE UNI PLUG SYSTEM

With the new Rocket Sport 3S batteries, Team Orion now offers high performance with a friendly price for everybody. Upgrading to a 3S LiPo battery is the easiest way to drastically improve your car's performance!

3200mAh | 11.1V | 3S



Runtime
Power

- Uni Plug System**
Rocket Sport 3S, 11.1V 3200mAh
ORI14199
- TRX**
Rocket Sport 3S, 11.1V 3200mAh
ORI14198
- Deans**
Rocket Sport 3S, 11.1V 3200mAh
ORI14197
- Tamiya**
Rocket Sport 3S, 11.1V 3200mAh
ORI14196

3500mAh | 11.1V | 3S



Runtime
Power

- Uni Plug System**
Rocket Sport 3S, 11.1V 3500mAh
ORI14195
- TRX**
Rocket Sport 3S, 11.1V 3500mAh
ORI14194
- Deans**
Rocket Sport 3S, 11.1V 3500mAh
ORI14193
- Tamiya**
Rocket Sport 3S, 11.1V 3500mAh
ORI14192

4300mAh | 11.1V | 3S



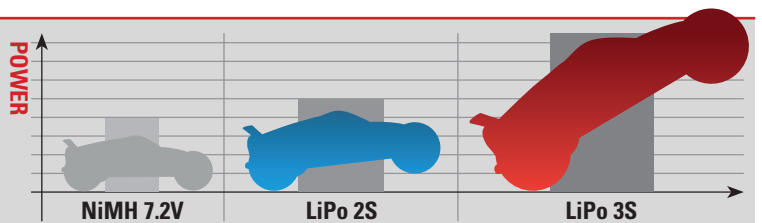
Fahrzeit
Power

- Uni Plug System**
Rocket Sport 3S, 11.1V 4300mAh
ORI14191
- TRX**
Rocket Sport 3S, 11.1V 4300mAh
ORI14190
- Deans**
Rocket Sport 3S, 11.1V 4300mAh
ORI14189
- Tamiya**
Rocket Sport 3S, 11.1V 4300mAh
ORI14188

Features

- 3200mAh version, same size as regular stick battery, compatible with all cars.
- 3500-4300mAh version, for cars compatible with 3S LiPo batteries.
- 50% more powerful and 35% lighter than equivalent NiMH batteries.
- Longer run-times than equivalent NiMH batteries.
- Robust hard plastic case protects cells from dirt and damage.
- Available with Uni Plug System, TRX, Deans, Tamiya and EC3 compatible.

By using a LiPo battery instead of a NiMH battery, you can greatly increase the performance of your car. Using a 3S LiPo instead of a 2S Lipo again increases the performance by up to 50%. Before using a 3S LiPo battery you must consult your car's user manual and make sure that the ESC is compatible with 3S LiPo batteries.



HIGH-END 1/10 BRUSHLESS ESC



1/10 & 1/12
RACING ESC

ADVANCED
UPDATABLE
SOFTWARE

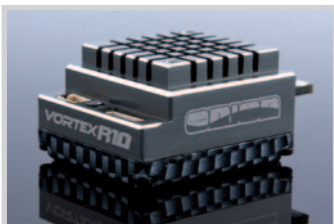
MACHINED
ALUMINUM CASE

4 TIMES
US NATIONAL
CHAMPION

FULLY
PROGRAMMABLE

The Vortex R10 range of ESC has taken the world by storm! All over the planet, racers are praising it's performance, smoothness and tunability. The new generation of ESC has arrived, delivered by Team Orion!

Top of the range



Vortex R10 Pro 2-3S
ORI65102

High performance ESC featuring the latest developments in ESC technology. Its advanced software and timing functions maximise performance. It can run both in forward and reverse and with sensor or sensorless motors, making it not only the best racing ESC, but also the best all-around ESC. Works with 2-3S LiPo.

For 1/12 scale



Vortex R10 Pro 1-2S
ORI65101

The Vortex R10 Pro 1-2S is designed for 1/12 scale racing. It is equipped with a booster to allow the use of 1S LiPo and ensure high performance. The aluminum case is also thinner, reducing weight and lowering the CG even further. Thanks to its advanced and highly customizable software, this ESC is sure to give you an edge over the competition.

For 0° timing racing



Vortex R10 Race 2-3S (0°-Timing Class)
ORI65109

The newcomer in the R10 PRO ESC range, designed for 0° timing racing. This ESC uses the same software as the other R10 Pro ESC, but the timing functions have been disabled. It also works with sensor and sensorless motors, 2-3S LiPo and has forward/reverse function making it ideal for all applications requiring a high quality ESC.

Features

- 4-times US national champion
- 2011 Norwegian Champion
- 3rd Place at the Worlds.
- Machined aluminum case for improved cooling
- Low center of gravity
- High grade components for unparalleled performance
- Highly customizable and updatable state of the art software
- Dual sensor port for optimal sensor wire placement
- Works with sensor and sensorless motors
- On the fly switch from sensor to sensorless mode in case of sensor failure
- Forward/brake, forward/brake/reverse and forward/reverse (Crawler) function modes
- Works with up to 3S LiPo (65102-65109)
- Easy setup
- Status control by LED and audio tone
- Optional programming box and software available

Specifications	Vortex R10 Pro 2-3S	Vortex R10 Pro 1-2S	Vortex R10 Pro 2-3S
Rated current	160A/760A peak	120A/760A peak	90A/420A peak
Type	Sensor/Sensorless		
Function modes	Forward/Brake - Forward/Brake/Reverse - Forward/Reverse (Crawler)		
Timing boost	yes	yes	no
Motor type	2S: up to 2.5T, 3S up to 5.5T	1S: up to 3.5T, 2S up to 4.5T	2S: up to 5.5T, 3S up to 10.5T
Battery	5-9 NiMH/NiCd, 2-3S LiPo/LiFe	4-6 NiMH/NiCd, 1-2S LiPo/LiFe	5-9 NiMH/NiCd, 2-3S LiPo/LiFe
BEC	5.75V/3A, Linear	6V/2A, Booster	5.75V/3A, Linear
Size and weight	41.5x30.5x20.2mm, 44g	41.5x30.5x16.5mm, 40g	41.5x30.5x20.2mm, 43g

HIGH-END 1/8 BRUSHLESS ESC



1/8 SCALE RACING ESC

2-6S LIPO/LIFE 6-18 CELLS NIMH/NICD

180A CONSTANT 950A MAX!

ADVANCED UPDATABLE SOFTWARE

FOR SENSOR AND SENSORLESS MOTORS

The Vortex R8 Pro is at the peak of 1/8 ESC technology, high power, high efficiency, advanced customizable software, works with sensor and sensorless motors, US National champion, what else can you ask for?

2011 1/8 SCALE BUGGY AND TRUGGY NATIONAL CHAMPION



The Vortex R8 Pro Brushless ESC is designed for racers and those that want the best there is. It has a 950A peak current and advanced software that allows it to achieve max performance in all conditions.

Specifications	Vortex R8 Pro
Part#	ORI65105
Rated current	180A/950A peak
Type	Sensor/Sensorless
Resistance	0.0002 Ω
Function modes	Forward/Brake - Forward/Brake/Reverse Forward/Reverse (Crawler)
Motor type	4S: up to 3000KV, 6S up to 2400KV
Battery	6-18 NiMH/NiCd, 2-6S LiPo/LiFe
BEC	5.75V/3A, Linear
Size and weight	56x46.5x35mm, 105g

Features

- 2011 1/8 Scale Buggy and Truggy National Champion
- Robust carbon look plastic case with integrated cooling fan
- High grade components for unparalleled performance
- Highly customizable and updatable state of the art software
- Works with sensor and sensorless motors
- On the fly switch from sensor to sensorless mode in case of sensor failure
- Forward/brake, forward/brake/reverse and forward/reverse (Crawler) function modes
- Easy setup
- Status control by LED and audio tone
- Equipped with Deans high current connectors
- Works with up to 6S LiPo
- Optional programming box and software available

NEW GENERATION FAIR PRICE



4-POLE SENSORLESS
BRUSHLESS
SYSTEM

3 DIFFERENT
WINDS AVAILABLE

NEW GENERATION
ESC

PLUG&PLAY
NO SOLDERING
REQUIRED

HIGH GRADE
SILICONE WIRES

The Neon Brushless System sets a new standard for entry level brushless systems. A reliable new generation ESC, combined with a new 4-pole sensorless brushless motor!



ESC

The 4-pole Neon brushless combos use our new generation Vortex R10 ESC. This new ESC offers ease of use, reliability and high performance. It can work with up to 3S LiPo and comes with Tamiya or Deans connectors (depending on the motor type). Several parameters can be fine tuned by the user.

MOTOR

The Neon 4-pole brushless motor is a brand new design from our motor man Oscar Jansen. The best technical choices have been made to offer great functionality with contained costs. Thanks to this you can enjoy the performance of a 4-pole motor without breaking the bank.



Features

- Vortex world champion technology
- Optimal ESC/motor combinations
- 3 different winds available
- Designed for 1/10 scale on-road and off-road cars
- 4-pole sensorless brushless motor with rebuildable case
- New generation 45A/290A Vortex R10 Sport ESC
- Several adjustable settings
- Forward/brake and forward/brake/reverse function modes
- Available with Deans or Tamiya plugs (depending on motor type)
- Works with up to 3S LiPo
- Cooling fan included
- Low voltage cut-off system for battery protection
- High grade silicone wire
- Gold connectors
- Easy setup
- Status control by LED and audio tone
- Plug&Play no soldering required

14T/4100KV Combo



ESC w/Deans battery connector
Vortex Neon 14T 4100KV Brushless Combo
ORI66082

Model	Neon 14 BL Motor
Part #	ORI28182
Turns	2Y
Resistance	6.06 mΩ
RPM/V	4100 KV
Current@7.2V	6.3 A
Operation Voltage	4.5V-12.6V
Max. Power	250W
Efficiency	89%
Max. Temp.	150°C
Dimensions	L52 x D35.8mm
Shaft	L15 x D3.175mm
Connector	3.5mm Gold Plug

17T/3280KV Combo



ESC w/Deans battery connector
Vortex Neon 17T 3280KV Brushless Combo
ORI66083

Model	Neon 17 BL motor
Part #	ORI28183
Turns	2.5Y
Resistance	9.42 mΩ
RPM/V	3280 KV
Current@7.2V	4.1 A
Operation Voltage	4.5V-12.6V
Max. Power	220W
Efficiency	90%
Max. Temp.	150°C
Dimensions	L52 x D35.8mm
Shaft	L15 x D3.175mm
Connector	3.5mm Gold Plug

19T/2750KV Combo



ESC w/Tamiya battery connector
Vortex Neon 19T 2750KV Brushless Combo
ORI66084

Model	Neon 19 BL motor
Part #	ORI28184
Turns	3Y
Resistance	14.51 mΩ
RPM/V	2750 KV
Current@7.2V	3.1 A
Operation Voltage	4.5V-12.6V
Max. Power	180W
Efficiency	90%
Max. Temp.	150°C
Dimensions	L52 x D35.8mm
Shaft	L15 x D3.175mm
Connector	3.5mm Gold Plug

Motors



ORI28182 Vortex Neon 14T 4100KV Brushless Motor
ORI28183 Vortex Neon 17T 3280KV Brushless Motor
ORI28184 Vortex Neon 19T 2750KV Brushless Motor



ESC

ORI65106 Vortex R10 Sport 45A w/Tamiya connector
ORI65110 Vortex R10 Sport 45A w/Deans connector

BRUSHED TECHNOLOGY MODIFIED MOTORS



- BRUSHED MODIFIED MOTOR
- ADJUSTABLE TIMING AND REBUILDABLE
- 4 WINDS AVAILABLE
- EASY SOLUTION TO IMPROVE PERFORMANCE

- Features**
- High performance modified brushed motor
 - High quality motor can
 - Improved cooling
 - Fully rebuildable
 - Adjustable timing
 - Easy to replace brushes and springs
 - 4 different winds available, 12T, 15T, 17T and 20T.
 - Easy way to vastly improve your car's performance (on-road and off-road applications)
 - Team Orion racen proven technology
 - Bullet type connectors

The Method Pro motors is the new generation of Method motors. Team Orion's world championship winning technology is built into these cost friendly motors. Installing a Method motor in your car is the easiest way to improve its performance and have more fun when you are running it. The motors can be rebuilt and the brushes replaced easily.



Method Pro 12 Turns
ORI25126



Method Pro 15 Turns
ORI25127



Method Pro 17 Turns
ORI25128



Method Pro 20 Turns
ORI25129

SHORT COURSE RACING MOTOR



- 550 SIZE SENSOR BRUSHLESS MOTOR**
- VORTEX WORLD CHAMPION TECHNOLOGY**
- 2 PIECE CASE DESIGN**
- DESIGNED FOR SHORT COURSE RACING**
- HIGH PERFORMANCE AND RELIABILITY**

Team Orion's Vortex motor technology now also available for Short-Course racing. Like all our Vortex racing motors this 550 size sensored brushless motor has been developed using the input from our world championship winning team.



Vortex VST Pro SC550 4.0T
ORI28240



Vortex VST Pro SC550 4.5T
ORI28241



Vortex VST Pro SC550 5.0T
ORI28242

The Short Course category has become a popular racing class. Thanks to this popularity, the cars have evolved, increasing the performance levels and allowing the use of more powerful motors and batteries. As with all Vortex racing brushless motors, the 550 size VST Pro SC

550 has been extensively tested by our world championship winning team. This ensures that you get a motor that has all the right characteristics to give you an edge over the competition. This motor has the same features as our 540 size VST Pro motors, but it uses a longer can,

longer magnet for extra torque and a 5mm shaft. Available with 4.0, 4.5 and 5.0 winds.

Weight	265g
Length	65.9mm
Diameter	35.8mm
Shaft size	20.8mm x 5mm
Shaft diameter	5.0mm

Specifications	VST Pro SC550 4.0T	Vortex VST Pro SC550 4.5T	Vortex VST Pro SC550 5.0T
Part#	ORI28240	ORI28241	ORI28242
Voltage	7.2-11.1V	7.2-11.1V	7.2-11.1V
RPM/7.4V	33'400	31'000	27'700
RPM/V	4'600KV	4'200KV	3'700KV
Max Power	800W	750W	700W
Max current	80A	70A	60A
Efficiency	86%	87%	88%
Magnet Material	Sintered	Sintered	Sintered
Type	Sensor	Sensor	Sensor
Timing	Adjustable	Adjustable	Adjustable
Poles	2	2	2

Features

- 550 size sensor brushless motor for short course racing trucks
- Rebuildable 2 piece motor can design
- Optimised sensor - rotor - stator positioning for improved efficiency and lower heat build-up
- New stack design for improved efficiency
- New cooling vent design for improved cooling
- Extra thick front plate for better stability and cooling
- Extra thick solder posts for improved contact and stability
- Removable sensor plate with high speed ballbearing
- New design gold plated wind ring
- Reduced vibrations
- Designed in Switzerland

BRUSHLESS FOR ALL APPLICATIONS

Combos and ESC for 1/8 scale cars



Vortex R8		Performance:	RACE
Type	Combos	Specifications	
Sensor/Sensorless: ORI65107	2050KV 4-Pole Motor } ORI66091 Vortex R8 (ORI65104)	Rated current	130A/760A peak
Sensorless only: ORI65104		Resistance	0.0004 ohm
		Function modes	Forward/brake, forward/brake/reverse, forward/reverse (for Crawler)
		Motor type	2S Lipo: up to 6000KV, 3S Lipo: up to 4000KV 4S LiPo: up to 3000KV
		Battery	2-4S LiPo/LiFe or 6-12 cells NiMH/NiCd
		BEC	6V/3A
		Size	53.5x36x36mm
		Weight	79g



Vortex R8 Pro		Performance:	PRO
Type	Combos	Specifications	
Sensor/Sensorless: ORI65105	Vortex MR8 1750KV } ORI66060 ORI65105 R8 Pro	Vortex MR8 2400KV } ORI66063 ORI65105 R8 Pro	Vortex MR8L 1950KV } ORI66066 ORI65105 R8 Pro
Tech specs on page 7	Vortex MR8 1950KV } ORI66061 ORI65105 R8 Pro	Vortex MR8L 1500KV } ORI66064 ORI65105 R8 Pro	Vortex MR8L 2100KV } ORI66067 ORI65105 R8 Pro
	Vortex MR8 2150KV } ORI66062 ORI65105 R8 Pro	Vortex MR8L 1750KV } ORI66065 ORI65105 R8 Pro	Vortex MR8L 2400KV } ORI66068 ORI65105 R8 Pro

Combos and ESC for 1/10 and 1/12 scale cars



Vortex R10 Sport For 1/10 scale cars		Performance:	HOBBY
Type	Combos	Specifications	
45A Tamiya plug: ORI65106	Neon 14T Motor } ORI66082 Vortex R10 Sport (ORI65110)	Rated current	45A/290A peak
45A Deans plug: ORI65110	Neon 17T Motor } ORI66083 Vortex R10 Sport (ORI65110)	Function	Forward/brake, forward/brake/reverse
60A Deans plug: ORI65111	Neon 19T Motor } ORI66084 Vortex R10 Sport (ORI65106)	Motor type	2S Lipo On-Road: up to 6000KV 2S Lipo Off-Road: Up to 4000KV 3S Lipo On-Road: up to 4000KV 3S Lipo Off-Road: up to 2500KV
		Battery type	2-3S LiPo/LiFe or 4-9 cells NiMH/NiCd
		BEC	6V/3A
		Size	31.5x27.5x33mm
		Weight	74g



Vortex R10SC For Short Course		Performance:	RACE
Type	Combos	Specifications	
Sensor/Sensorless: ORI65108	SC550 Motor 4.0T } ORI66088 Vortex R10 S SC (ORI65108)	Rated current	100A/520A peak
Sensor only: ORI65103	SC550 Motor 4.5T } ORI66089 Vortex R10 S SC (ORI65108)	Resistance	0.0007 ohm
	SC550 Motor 5.0T } ORI66090 Vortex R10 S SC (ORI65108)	Function modes	Forward/brake, forward/brake/reverse, forward/reverse (for Crawler)
		Motor type	2S Lipo: up to 6000KV 3S Lipo: up to 4000KV
		Battery type	2-3S LiPo/LiFe or 6-9 cells NiMH/NiCd
		BEC	6V/3A
		Size	53.5x36x36mm
		Weight	74g



Vortex R10 Pro For 1/10 and 1/12		Performance:	PRO
Type	Combos	Specifications	
Full spec 2-3S: ORI65102	Vortex VST Pro 17.5T } ORI66050 ORI65101 R10 1-2S	Vortex VST Pro 7.5T } ORI66053 ORI65102 R10 2-3S	Vortex VST Pro 3.5T } ORI66071 ORI65101 R10 1-2S
Full spec 1-2S: ORI65101	Vortex VST Pro 13.5T } ORI66051 ORI65101 R10 1-2S	Vortex VST Pro 5.5T } ORI66054 ORI65102 R10 2-3S	Vortex VST Pro 6.5T } ORI66072 ORI65102 R10 2-3S
0° timing spec 2-3S: ORI65109	Vortex VST Pro 10.5T } ORI66052 ORI65101 R10 1-2S	Vortex VST Pro 3.5T } ORI66055 ORI65102 R10 2-3S	Vortex VST Pro 8.5T } ORI66073 ORI65102 R10 2-3S
Tech specs on page 6			Vortex VST Pro 17.5T } ORI66074 ORI65102 R10 2-3S

STARTER BOX PRO 2. THE EVOLUTION.



**NEW 775 SIZE
MOTORS OPTIMIZED
FOR LIPO**

**NEW
SWITCHING
SYSTEM**

**NEW UNIVERSAL
BATTERY HOLDER**

**FOR OFF-ROAD AND
ON-ROAD CARS**

**ROBUST AND
LONG LIFE
CONSTRUCTION**

Our popular starter boxes have evolved, new lipo optimized motors, new switching system, new universal battery holder, a wide range of improvements that make a good product even better.

Starter Box Race 2



Off-Road Race 2 Starter Box
ORI88954

- Robust plastic case
- New 775 size motors optimized for LiPo
- New universal battery holder fits all battery types
- New improved switching system
- For On-Road and Off-Road cars
- Long life components
- Race tested

Starter Box Pro 2



Off-Road Pro 2 Starter Box
ORI88955

- High end metal case
- New 775 size motors optimized for LiPo
- New universal battery holder fits all battery types
- New improved switching system
- For On-Road and Off-Road cars
- Long life components
- Race tested



NiMH Stick



LiPo Stick



LiPo Square



LiPo Glow - the best tool for starting your engines!



The new LiPo Glow plug igniter uses a LiPo battery as a power source, this offers several advantages over NiMH batteries.

- Optimal power output thanks to the integrated power regulator (no voltage drop).
- Very low self-discharge, the igniter does not discharge by itself when it's not in use.
- Status LED indicates igniter and glow plug status.

LiPo-Glow w/charger:
ORI88940 EU-220V, ORI88941 UK-220V, ORI88942 USA/JP-110V
LiPo-Glow only: ORI88943 LiPo-Glow

The new starter boxes are compatible with round or square case NiMH and LiPo batteries. The switching system has been redesigned to ensure maximum reliability.

AFFORDABLE FLIGHT LIPO BATTERIES.

The Avionics Sport LiPo batteries offer Team Orion quality to an affordable price. With the 25C long-life chemistry you can be sure to get hundreds of charges out of your pack, offering the same power charge after charge.

2S 7.4V LiPo Sport



Capacity (mAh): 1800mAh
C Rating: 25C
Weight (approx.): 98g
Size (approx. mm): L106 x W35 x H15
Part Number: ORI60110



Capacity (mAh): 3200mAh
C Rating: 25C
Weight (approx.): 166g
Size (approx. mm): L135 x W35 x H16
Part Number: ORI60113



Capacity (mAh): 2100mAh
C Rating: 25C
Weight (approx.): 112g
Size (approx. mm): L106 x W35 x H17
Part Number: ORI60111



Capacity (mAh): 2400mAh
C Rating: 25C
Weight (approx.): 124g
Size (approx. mm): L106 x W35 x H19
Part Number: ORI60112

3S 11.1V LiPo Sport



Capacity (mAh): 1800mAh
C Rating: 25C
Weight (approx.): 147g
Size (approx. mm): L106 x W35 x H22
Part Number: ORI60115



Capacity (mAh): 3600mAh
C Rating: 25C
Weight (approx.): 184g
Size (approx. mm): L135 x W35 x H17
Part Number: ORI60114



Capacity (mAh): 2400mAh
C Rating: 25C
Weight (approx.): 186g
Size (approx. mm): L106 x W35 x H28
Part Number: ORI60117



Capacity (mAh): 2100mAh
C Rating: 25C
Weight (approx.): 168g
Size (approx. mm): L106 x W35 x H25
Part Number: ORI60116



Capacity (mAh): 3600mAh
C Rating: 25C
Weight (approx.): 276g
Size (approx. mm): L135 x W43 x H25
Part Number: ORI60119



Capacity (mAh): 3200mAh
C-Rate: 25C
Weight (approx.): 249g
Size (approx. mm): L135 x W43 x H23
Part Number: ORI60118

4S 14.8V LiPo Sport



Capacity (mAh): 2100mAh
C Rating: 25C
Weight (approx.): 198g
Size (approx. mm): L106 x W35 x H29
Part Number: ORI60120



Capacity (mAh): 2400mAh
C Rating: 25C
Weight (approx.): 226g
Size (approx. mm): L106 x W35 x H33
Part Number: ORI60121



Capacity (mAh): 3200mAh
C Rating: 25C
Weight (approx.): 250g
Size (approx. mm): L106 x W35 x H36
Part Number: ORI60122



Capacity (mAh): 3600mAh
C Rating: 25C
Weight (approx.): 334g
Size (approx. mm): L135 x W43 x H30
Part Number: ORI60123



Capacity (mAh): 4000mAh
C Rating: 25C
Weight (approx.): 370g
Size (approx. mm): L135 x W43 x H33
Part Number: ORI60124

LIPO POWER FOR MICRO AIRCRAFTS & HELIS



LATEST LIPO BATTERY TECHNOLOGY

HIGH-POWER 20C DISCHARGE RATE

MINIUM™/ E-FLIGHT® TYPE CONNECTOR

FITS HUNDEREDS OF HELICOPTERS AND AIRPLANES

SAFE AND PRACTICAL STORAGE BOX



Micro 80mAh 20C 3.7V

Part Number: ORI60096
Capacity: 80mAh
Dimensions: 37.4x10.5x4mm
Weight: 2.7g
Voltage: 3.7V
C-Rate: 20C



Micro 120mAh 20C 3.7V

Part Number: ORI60097
Capacity: 120mAh
Dimensions: 42.1x10.8x4.9mm
Weight: 4.0g
Voltage: 3.7V
C-Rate: 20C



Micro 160mAh 20C 3.7V

Part Number: ORI60098
Capacity: 160mAh
Dimensions: 35.6x19.1x4.5mm
Weight: 5.1g
Voltage: 3.7V
C-Rate: 20C



Micro 200mAh 20C 3.7V

Part Number: ORI60099
Capacity: 200mAh
Dimensions: 43.9x19.4x4.2mm
Weight: 6.2g
Voltage: 3.7V
C-Rate: 20C



Micro 250mAh 20C 3.7V

Part Number: ORI60100
Capacity: 250mAh
Dimensions: 47.7x19.2x4.5mm
Weight: 7.6g
Voltage: 3.7V
C-Rate: 20C



Micro 300mAh 20C 3.7V

Part Number: ORI60101
Capacity: 300mAh
Dimensions: 53.6x19.2x4.5mm
Weight: 8.8g
Voltage: 3.7V
C-Rate: 20C

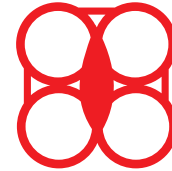
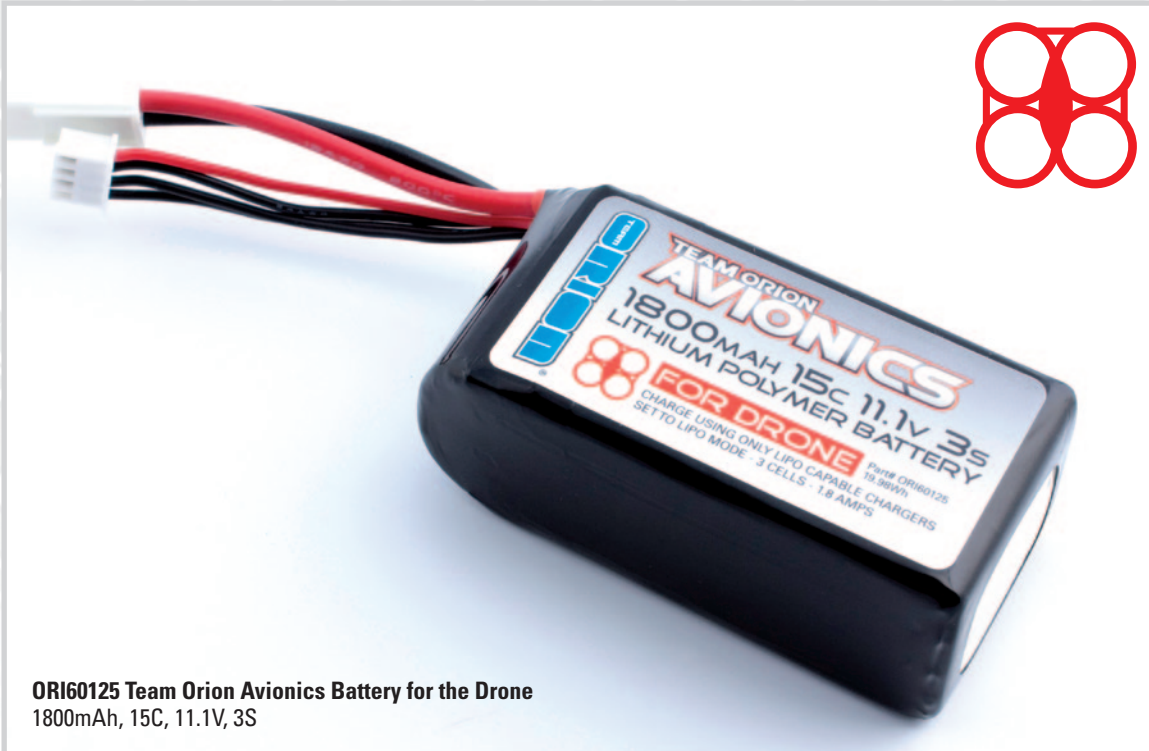


Micro 350mAh 20C 3.7V

Part Number: ORI60102
Capacity: 350mAh
Dimensions: 57.4x19.5x4.5mm
Weight: 9.7g
Voltage: 3.7V
C-Rate: 20C



MORE FLIGHT TIME & POWER FOR THE DRONE



1800MAH LONG FLIGHT TIME BATTERY

IMPROVED LIPO TECHNOLOGY

DESIGNED FOR THE DRONE

COMPATIBLE WITH ORIGINAL CHARGER

NO MODIFICATIONS NECESSARY

ORI60125 Team Orion Avionics Battery for the Drone
1800mAh, 15C, 11.1V, 3S

We have developed specifically for the RC flying drone, thanks to our superior LiPo technology, you can now have more flight time and more power. The best part is that the battery can be charged using the standard charger and you don't have to modify anything on the drone to install this battery.



ORI60125 Team Orion Avionics Battery for the Drone
1800mAh, 15C, 11.1V, 3S



Perfect fit



Compatible with the standard charger

The new Team Orion Avionics Drone battery is a high-quality LiPo battery using the latest LiPo technologies. With its 1800mAh capacity and 15C max discharge rate it offers almost twice the flight time than the original battery and this along with increased overall performance. Extra performance equals more fun!

Capacity (mAh):	1800mAh
C Rating:	15C
Weight (approx.):	149g
Size (approx. mm):	H34xW36xL72
Part Number:	ORI60125



Please find more airplane and helicopter batteries on www.teamorion-avionics.com

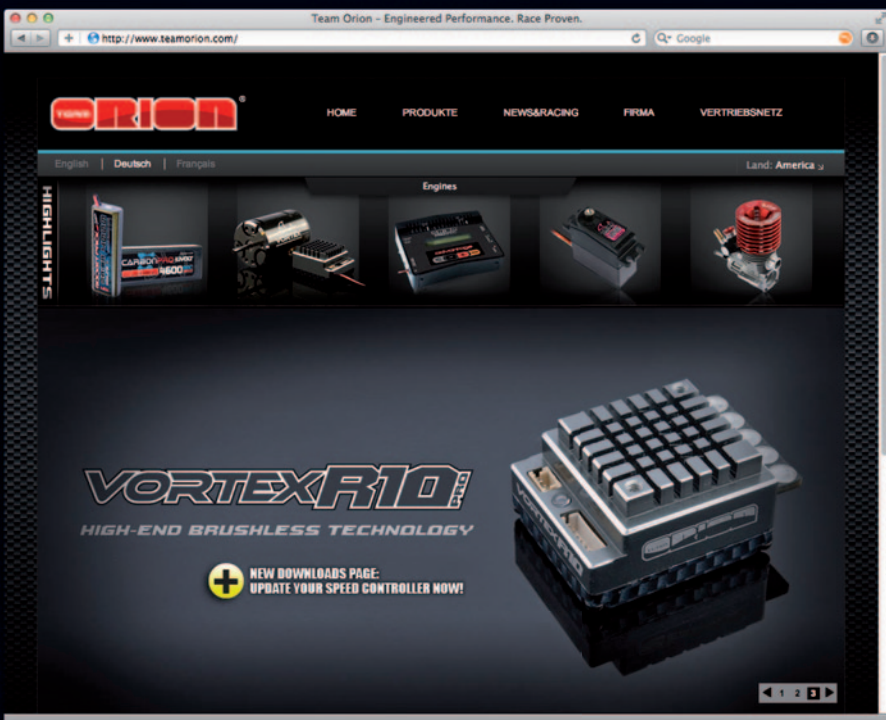
Team Orion offers a wide range of LiPo and LiFe batteries for aircrafts and other applications. Visit our site www.teamorion-avionics.com and discover our range of batteries.



25 YEARS OF SUCCESS

WORLD CHAMPIONSHIP TITLES

- ★ 2011 Finland Ryan Cavalieri 1/10 Buggy 4WD, Motor, Batteries
- ★ 2011 Finland Ryan Cavalieri 1/10 Buggy 2WD, Motor, Batteries
- ★ 2010 Thailand Cody King 1/8 Buggy, CRF Engines
- ★ 2006 Italy Andy Moore 1/10 Touring V2 Motor, Batteries
- ★ 2004 USA Marc Rheinard 1/10 Touring V2 Motor, Batteries
- ★ 2001 South Africa Jukka Steenari 1/10 Buggy 4WD Motor, Batteries
- ★ 1999 Finland Jukka Steenari 1/10 Buggy 4WD Motor, Batteries
- ★ 1996 USA Mike Swauger 1/10 On-Road, Batteries
- ★ 1995 Japan Matt Francis 1/10 Buggy 2WD, Batteries
- ★ 1995 Japan Mark Pavidis 1/10 Buggy 4WD, Batteries
- ★ 1994 Germany Masami Hirosaka 1/10 On-Road, Receiver Batteries
- ★ 1994 France David Spashett 1/12th On-Road, Batteries



The Team Orion started 25 years ago. Originally Team Orion was a battery matching company, providing drivers all over the world with the best quality matched batteries on the market. 25 years and 12 world championship titles later, Team Orion has grown to be a company offering a wide array of products, powering electric and nitro cars alike.

Passion, quality and performance are three words that stand at the heart of the Team Orion brand. Our R&D team is constantly working on new designs and this shows in all of our products. Whether you are a racer or a just someone who enjoys running RC cars for fun, you are sure to find a Team Orion quality product that satisfies your needs. Team Orion means world champion technology and performance from every one of our products.

Team Orion - 25 years of success

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