

APPROVED 4S. 'STICK' Lithium (LiPo) BATTERY LIST. 2023. v1.

List shows years :- 2017 -- 2023.

Only Batteries detailed below (and any archive lists) are approved for EFRA Sanctioned Events.

EUROPEAN FEDERATION RADIO CONTROLLED AUTOMOBILES.

BATTERIES ON THIS HOMOLOGATION LIST HAVE BEEN CERTIFIED FOR COMPLIANCE WITH UN38.3, TESTS T1-T8.

Lithium based (LiPo) batteries detailed below, are approved for various EFRA Electric Classes. Section Rules will detail the type applicable.

Availability dates for new EFRA compliant Packs are not known at the date of publishing this list. Manufacturers have confirmed March 2023 latest.

EFRA rules limit battery energy capacity to comply with Airline Requirements (currently 100Wh.), based on Manufacturers data below.

Batteries approved from 2011 onwards must comply with the weight range specified. Batteries factory sealed (glue, weld etc.).

Battery packs must be able to be disconnected within the Car quickly without the use of tools. Direct soldering is not allowed.

Manufacturers advise that charge rate be restricted to 1C for optimum lifspan, but should not be more than stated below (for 2017 on).

Batteries MUST be charged using a 4S LiPo compatible charger. LiPo 'Sack' must be used when charging or discharging prior to race.

It is strictly NOT ALLOWED, to charge 4S LiPo Batteries to give an output voltage exceeding 16.80v.

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Submitted by:	Label Details Part #	Illustration only	Manufacturer Supplied Data.	EFRA measured Specification,	Approval Date	
BATTERIES BELOW ARE APPROVED BY EFRA FOR 2023, BUT NOT ALLOWED AT EFRA 2023 EVENTS UNTIL 01.04.23.						
Kiel Technology	Fyrrework ECP plus # F65130-4S1P HV	# G500 man	Kiel LiPo 4S 15.2v. 98.8 Wh. 130C Max charge rate: 1C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 485.4 g. Allowed: 466/504 g.	02.01.23	
BAT	TTERIES BELO	W THIS LEVEL WERE APPROVED BY EFRA	FOR 2022 AND ARE A	LOWED AT 2023 EVEN	ITS.	
Absima	Absima Competition # 4150014	HOLD SHOWN	Absima LiPo 4S 15.2v. 89.7 Wh. 140C Max charge rate: 1C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:-Sample: 448.2 g. Allowed: 430/466 g.	03.01.22	
Associated Electrics	Reedy Zappers SG5 # 27388	SSS STATES	Reedy LiPo 4S 15.2v. 99.0 Wh. 130C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 574.6 g. Allowed: 547/593 g.	03.01.22	
Freemax Technology	Arrowmax # AM 700610	LIPO GODDINAN 1-9, SV ST.	Freemax Tech. LiPo 4S 14.8v. 88.8 Wh. 130C Max charge rate: 1C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 482.0 g. Allowed: 463/501 g.	03.01.22	
Intellect Pioneering Battery Technology	IP Platinum Series # BG4S6400PT2	INFO MATERIAL COMPANY OF THE PARTY OF THE PA	Intellect LiPo 4S 15.2v. 97.0 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 445.0 g. Allowed: 427/463 g.	03.01.22	
Intellect Pioneering Battery Technology	IP Platinum Series # CC4S5200PT2	11PB RACE PACH 45 LCG MAN AND THE PACH AND CONSESSED OF THE PACH PACH PACH PACH PACH PACH PACH PACH	Intellect LiPo 4S 15.2v. 79.0 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:-Sample: 451.0 g. Allowed: 432/468 g.	03.01.22	
Intellect Pioneering Battery Technology	IP Platinum Series # CC4S6500PT2	LIPO RACE FACE Afficient graphene	Intellect LiPo 4S 15.2v. 99.0 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 575.5 g. Allowed: 547/593 g.	03.01.22	
LRP	LRP G4.1 LCG Modified # 432250	© NV AS ULTRA ICO MODIFIED COMPANION OF A COMPANION	LRP LiPo 4S 15.2v. 91.2 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 475.7 g. Allowed: 459/497 g.	03.01.22	

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LRP	LRP G4.1 LCG	● NV 45 LCC MODIFIED ■ NUM	LiPo 4S 15.2v. 99.6 Wh. 120C	Sample complies with EFRA dimensions. Weights:-	03.01.22
	Modified # 432251	STAPHEN 6550 TRE	Max charge rate: 3C 5 mm. Tubes	Sample: 538.2 g. Allowed: 518/562 g.	31.12.22 Wts. Amended
ProTek RC	ProTek RC # PTK-5131-22	Comment of the second s	ProTek LiPo 4S 15.2v. 97.2 Wh. 130C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 445.6 g. Allowed: 427/463 g.	03.01.22
ProTek RC	ProTek RC # PTK-5118-22	SECOND MANAGEMENT AND	ProTek LiPo 4S 15.2v. 85.0 Wh. 130C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 465.5 g. Allowed: 451/489 g.	03.01.22
Ruddog Dist.	Ruddog # RP-0475	ESSOCIAL SERVICE AS LEPT TO	Ruddog LiPo 4S 15.2v. 99.9 Wh. 150C Max charge rate: 2C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 484.8 g. Allowed: 466/504 g.	03.01.22
Xiamen 3-Circles	Sunpadow # JA0010	SZUD mRND grapheng Pass Anteres	3-Circles LiPo 4S 14.8v. 77.0 Wh. 130C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 488.2 g. Allowed: 470/510 g.	03.01.22
Xiamen 3-Circles	Sunpadow # JA0015	SECUL OF SECU	3-Circles LiPo 4S 14.8v. 82.9 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 482.2 g. Allowed: 465/503 g.	03.01.22
Xiamen 3-Circles	Sunpadow # JA0033	BILL MARK COMPANY STATE OF THE COMPANY STA	3-Circles LiPo 4S 14.8v. 93.2 Wh. 130C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 596.3 g. Allowed: 574/622 g.	03.01.22
Xiamen 3-Circles	Sunpadow # JA0007	BTOO MAIN Graphone Roace Anteries Research	3-Circles LiPo 4S 14.8v. 99.2 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 587.2 g. Allowed: 565/613 g.	03.01.22
No b	atteries were h	nomologated for 2021, as batteries from 202	0 were not fully utilised	due to event cancellati	ons.
BAT	ITERIES BELO	W THIS LEVEL WERE APPROVED BY EFRA	A FOR 2020 AND ARE A	LLOWED AT 2023 EVE	NTS.
Associated Electrics	Reedy Zappers SG3 # 27353	6400 (A)	Reedy LiPo 4S 15.2v. 98.0 Wh. 115C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 559.0 g. Allowed: 533/577 g.	10.01.20
Neidhart SA	Orion V-Max # ORI 14520	V-MRX-HV III. IIV	Neidhart SA LiPo 4S 15.2v. 99.9 Wh. 128C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 571.5 g. Allowed: 547/593 g.	10.01.20
Ruddog Dist.	Ruddog # RP-0178	6500 GUDDOS II 18-8V LIFTY CE	Ruddog LiPo 4S 15.2v. 98.8 Wh. 100C Max charge rate: 2C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 538.1 g. Allowed: 535/579 g.	10.01.20

Shenzhen Grepow	GensAce Redline # 130C60004S1P HC59-HV	THE POLYTE OF STREET OCC	GensAce LiPo 4S 15.2v. 91.2 Wh. 130C Max charge rate: 1C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 435.3 g. Allowed: 422/458 g.	10.01.20	
Shenzhen Grepow	GensAce # 120C65504S1P HC50-HV	FORE OCC PROCESSES	GensAce LiPo 4S 15.2v. 99.6 Wh. 120C Max charge rate: 1C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 589.0 g. Allowed: 547/593 g.	10.01.20	
Vapex Technology	VP Racing # VP98959	6500 13 V 1700 15 V 1700 17	Vapex LiPo 4S 15.2v. 98.8 Wh. 70C Max charge rate: 2C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 556.9 g. Allowed: 535/579 g.	10.01.20	
BA	TTERIES BELO	W THIS LEVEL WERE APPROVED BY EFRA	FOR 2019 AND ARE A	LLOWED AT 2023 EVEN	ITS.	
Associated Electrics	Reedy Zappers SG2 # 27342	SOMEWING HANDS	Reedy LiPo 4S 15.2v. 98.0 Wh. 110C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 538.3 g. Allowed: 509/551 g.	16.01.19	
Intellect Battery	IP # CC4S6000HV4	LIFO RACE PACK Afficial grapheses And Assessed Fractions of the pack of the	Intellect LiPo 4S 15.2v. 91.0 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 531.5 g. Allowed: 509/551 g.	16.01.19	
Neidhart SA	Performa # PA9302	CONTROLLED	Neidhart SA LiPo 4S 14.8v. 98.0 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 573.7 g. Allowed: 544/590 g.	16.01.19	
PK Racing	PK Racing Kansan # PK-200-228	KANSAN KANSAN MARKATAKAN KANSAN KANSAN MARKATAKAN MARKA	PK Racing LiPo 4S 15.2v. 98.8 Wh. 120C Max charge rate: 2C 4.5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: w/w 584.8 g. Allowed: 584/632 g.	16.01.19	
ProTek RC	ProTek RC # PTK-5101-19	THE COLUMN THE PROPERTY OF THE	ProTek LiPo 4S 15.2v. 62.3 Wh. 120C Max charge rate: 3C Wires	Sample complies with EFRA dimensions. Weights:- Sample w/w: 343.3 g. Allowed: 336/364 g.	16.01.19	
ProTek RC	ProTek RC # PTK-5118-18	THE PROVED	ProTek LiPo 4S 15.2v. 85.0 Wh. 100C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 467.9 g. Allowed: 446/484 g.	16.01.19	
ProTek RC	ProTek RC # PTK-5106-19	ESTITUTE TO A STATE OF THE STAT	ProTek LiPo 4S 15.2v. 98.8 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 538.6 g. Allowed: 509/551 g.	16.01.19	
BATTERIES BELOW THIS LEVEL WERE APPROVED BY EFRA FOR 2018 AND ARE ALLOWED AT 2023 EVENTS.						
Associated Electrics	Reedy Zappers SG # 27328		Reedy LiPo 4S 15.2v. 98.0 Wh. 110C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 548.7 g. Allowed: 528/572 g.	18.01.18	

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Intellect Battery	IP # CC4S5200HV3	LIFO RACE FACE efficient graphene is LCG	Intellect LiPo 4S 15.2v. 79.0 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 469.2 g. Allowed: 446/484 g.	18.01.18
Intellect Battery	IP # CC4S6000HV3	LIPO RACE PACK afficient graphene	Intellect LiPo 4S 15.2v. 91.0 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 533.8 g. Allowed: 509/551 g.	18.01.18
LRP	LRP P5 Offroad # 430269	CHANGE COLUMN CO	LRP LiPo 4S 14.8v. 97.7 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 622.2 g. Allowed: 599/649 g.	18.01.18
Neidhart SA	Orion Ultimate # ORI 14516	APTO DELECTION OF THE PARTY OF	Orion LiPo 4S 14.8v. 97.7 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 578.6 g. Allowed: 553/600 g.	18.01.18
Nosram	Nosram P5 Offroad # 999551	* PS UB OFFROAD GRAPHENES COCCOC HAUDO MAN STAM CHISTOLIST	Nosram LiPo 4S 14.8v. 97.7 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 626.0 g. Allowed: 599/649 g.	18.01.18
Shenzhen Grepow	GensAce # B100C67504S1 P HC-50-HV-RS	EZSUM CCO	GensAce LiPo 4S 14.8v. 99.9 Wh. 100C Max charge rate: 1C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 586.1 g. Allowed: 563/609 g.	18.01.18
Team Corally	Corally Voltax # C-49530	STATE OF THE STATE	Corally LiPo 4S 14.8v. 96.2 Wh. 120C Max charge rate: 2C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: w/w 570.9 g. Allowed: 549/595 g.	18.01.18
Team Corally	Corally Voltax # C-49631	VILLY A STATEMENT OF THE PROPERTY OF THE PROPE	Corally LiPo 4S 15.2v. 99.0 Wh. 120C Max charge rate: 2C Wires	Sample complies with EFRA dimensions. Weights:- Sample: w/w 609.0 g. Allowed: 584/635 g.	18.01.18
Team Corally	Corally Voltax # C-49630	WENTER WILLIAM STATE STA	Corally LiPo 4S 15.2v. 99.0 Wh. 120C Max charge rate: 2C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: w/w 551.6 g. Allowed: 530/574 g.	18.01.18
Team Corally	Corally Voltax # 49531	UNITED BY SERVICE STATE OF STA	Corally LiPo 4S 14.8v. 99.9 Wh. 120C Max charge rate: 2C Wires	Sample complies with EFRA dimensions. Weights:- Sample: w/w 604.3 g. Allowed: 580/628 g.	18.01.18
BAT	TTERIES BELO	W THIS LEVEL WERE APPROVED BY EFRA	FOR 2017 AND ARE A	LLOWED AT 2023 EVEN	TS.
Intellect Battery	IP # CC4S6000HV2	GOOOMAh UPO BACK PACK GOOOMAh (CC 1329 3146) Control of the Cont	Intellect LiPo 4S 15.2v. 91.0 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 543.8 g. Allowed: 528/572 g.	05.01.17

LRP	LRP # 430246	THE COLUMN ASSESSMENT	LRP LiPo 4S 14.8v. 97.7 Wh. 110C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 637.3 g. Allowed: 609/659 g.	05.01.17
Modern Creations	Team Silverback Spiral R # 6750904SIN	SPIRAL-R STANDARD TO STANDARD LAND STANDARD FOR STANDARD TO STANDA	Modern Creations LiPo 4S 14.8v. 99.9 Wh. 90C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 530.5 g. Allowed: 509/551 g.	05.01.17
Muchmore Racing	Impact # MLI- 4SLCG5200FD2	IMPACTIS 200	Muchmore LiPo 4S 14.8v. 76.9 Wh. 110C Max charge rate: 1C Wires	Sample complies with EFRA dimensions. Weights:- Sample: w/w 453.7 g. Allowed: 434/470 g.	05.01.17
Neidhart SA	Orion # ORI 14084	110C 14.8V 45	Orion LiPo 4S 14.8v. 71.0 Wh. 110C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 436.5 g. Allowed: 418/452 g.	05.01.17
Neidhart SA	Orion # ORI 14090	CARBON PRO 110C 14.8V 45	Orion LiPo 4S 14.8v. 71.0 Wh. 110C Max charge rate: 3C Wires	Sample complies with EFRA dimensions. Weights:- Sample: w/w 469.6 g. Allowed: 451/489 g.	05.01.17
Nosram	Nosram X-treme Race # 999539	• PS	Nosram LiPo 4S 14.8v. 97.7 Wh. 110C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 638.5 g. Allowed: 609/659 g.	05.01.17
ProTek RC	ProTek RC # PTK-5106-17	III DESCRICTO NEO CAPATENES III DESCRICTO NEO CAPATENES ESCONOMINAMENTO SEGUESTAS FIG. 3346-17 14 5000 FIG. 3346-17 14 5000	ProTek LiPo 4S 15.2v. 98.8 Wh. 100C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 540.5 g. Allowed: 528/572 g.	05.01.17
Team Corally	Corally Coral-X # 48375	FIGURE 18 CONTROL OF THE PROPERTY OF THE PROPE	Corally LiPo 4S 15.2v. 98.8 Wh. 100C Max charge rate:1.3C Wires	Sample complies with EFRA dimensions. Weights:- Sample: w/w 573.4 g. Allowed: 551/597 g.	05.01.17
Team Corally	Corally X-Treme # 48242	SPICE OF THE PROPERTY OF THE P	Corally LiPo 4S 14.8v. 98.8 Wh. 90C Max charge rate:1.3C Wires	Sample complies with EFRA dimensions. Weights:- Sample: w/w 495.7 g. Allowed: 475/515 g.	05.01.17
		Paul Worsley, (EFRA Batt	ery Homologation Officer). Updated - 02.01.23.	(Five Pages).