

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 2024 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 lifespan, but should not be more than stated below (for 2017 on).

Batteries MUST be charged using a 1S LiPo compatible charger. LiPo 'Sack' must be used when charging or discharging prior to race.






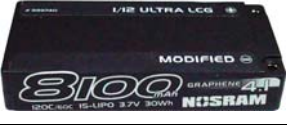

It is strictly NOT ALLOWED, to charge 1S LiPo Batteries to give an output voltage exceeding 4.20v.





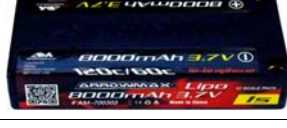








Submitted by:	Label Details Part #	Illustration only	Manufacturer Supplied Data.	EFRA measured Specification,	Approval Date
BATTERIES BELOW ARE APPROVED BY EFRA FOR 2024, BUT NOT ALLOWED AT EFRA 2024 EVENTS UNTIL 01.03.24.					
Intellect Pioneering Battery Technology	IP # AR1S8800MC3		Intellect LiPo 1S 3.8v. 34.0 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 149.8 g. Allowed: 146/158 g.	01.01.24
Italtrading	EZ-Power # EZP8600/1		Ital LiPo 1S 3.8v. 32.68 Wh. 140C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 153.2 g. Allowed: 146/158 g.	01.01.24
Kiel Technology	Fido # Fi74200-1S2P		Kiel LiPo 1S 3.7v. 27.3 Wh. 200C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 153.9 g. Allowed: 148/160 g.	01.01.24
ONYX Power Systems	Modified V2 # OPS75200		ONYX LiPo 1S 3.7v. 27.6 Wh. 150C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 156.7 g. Allowed: 151/163 g.	01.01.24
Schumacher Racing	Aerox Elite V1 # AX048		Schumacher LiPo 1S 3.7v. 27.4 Wh. 160C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 157.2 g. Allowed: 146/158 g.	01.01.24
Schumacher Racing	Aerox Elite V1 # AX047		Schumacher LiPo 1S 3.7v. 31.5 Wh. 130C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 161.8 g. Allowed: 154/166 g.	01.01.24
Schumacher Racing	Aerox Elite V1 # AX049		Schumacher LiPo 1S 3.8v. 32.7 Wh. 160C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 158.3 g. Allowed: 154/166 g.	01.01.24
Shenzhen Grepow	GensAce Redline 2.0 # GEA8000 1S14D5		GensAce LiPo 1S 3.8v. 30.4 Wh. 140C Max charge rate: 1C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 146.7 g. Allowed: 144/156 g.	01.01.24
Xiamen 3-Circles	Sunpadow Platin # JA0039		3-Circles LiPo 1S 3.7v. 30.34 Wh. 140C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 162.9 g. Allowed: 156/169 g.	01.01.24 New Wt. See also 2023
Xiamen 3-Circles	Sunpadow Platin # JA0036H		3-Circles LiPo 1S 3.8v. 33.44 Wh. 140C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 154.7 g. Allowed: 148/161 g.	01.01.24 New Wt. See also 2023






BATTERIES BELOW THIS LEVEL WERE APPROVED BY EFRA FOR 2023 AND ARE ALLOWED AT 2024 EVENTS.

Kiel Technology	Fyrrework ECP plus # F74200-1S2P		Kiel LiPo 1S 3.7v. 27.3 Wh. 200C Max charge rate: 1C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 155.7 g. Allowed: 149/161 g.	02.01.23
Xiamen 3-Circles	Sunpadow Platin # JA0039		3-Circles LiPo 1S 3.7v. 30.34 Wh. 140C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 157.0 g. Allowed: 150/162 g.	02.01.23
Xiamen 3-Circles	Sunpadow Platin # JA0036H		3-Circles LiPo 1S 3.8v. 33.44 Wh. 140C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 157.1 g. Allowed: 151/163 g.	02.01.23
Calandra Racing	CRC Rocket Fuel # CRC 37151		Calandra LiPo 1S 3.7v. 27.75 Wh. 150C Max charge rate: 1C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 155.3 g. Allowed: 154/166 g.	02.01.23
Calandra Racing	CRC Rocket Fuel # CRC 3715		Calandra LiPo 1S 3.7v. 31.45 Wh. 130C Max charge rate: 1C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 165.5 g. Allowed: 163/177 g.	02.01.23
Team EAM	EAM # EAM75130-1		EAM LiPo 1S 3.7v. 27.75 Wh. 130C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 155.2 g. Allowed: 149/161 g.	02.01.23
Team EAM	EAM # EAM85130-1		EAM LiPo 1S 3.7v. 31.45 Wh. 130C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 165.0 g. Allowed: 158/172 g.	02.01.23

BATTERIES BELOW THIS LEVEL WERE APPROVED BY EFRA FOR 2022 AND ARE ALLOWED AT 2024 EVENTS.

Absima	Absima Competition # 4150015		Absima LiPo 1S 3.7v. 29.2 Wh. 140C Max charge rate: 1C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 144.6 g. Allowed: 141/153 g.	03.01.22
Associated Electrics	Reedy Zappers SG5 # 27386		Reedy LiPo 1S 3.8v. 34.0 Wh. 90C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 152.8 g. Allowed: 146/158 g.	03.01.22
Freemax Technology	Arrowmax # AM 700305		Arrowmax LiPo 1S 3.7v. 30.34 Wh. 130C Max charge rate: 1C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 162.9 g. Allowed: 156/170 g.	03.01.22
Intellect Pioneering Battery Technology	IP Platinum Series # CC1S8800PT2		Intellect LiPo 1S 3.8v. 33.0 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 152.9 g. Allowed: 146/158 g.	03.01.22
LRP	LRP G4.1 Modified # 431268		LRP LiPo 1S 3.7v. 30.0 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 158.4 g. Allowed: 153/165 g.	03.01.22
Nosram	Nosram G4.1 Modified # 999740		Nosram LiPo 1S 3.7v. 30.0 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 154.2 g. Allowed: 149/161 g.	03.01.22
Process Measurement & Analysis	Optipower # OPR 80001S130B		Optipower LiPo 1S 3.7v. 29.6 Wh. 130C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 145.4 g. Allowed: 141/153 g.	03.01.22

ProTek RC	ProTek RC # PTK-5105-22		ProTek LiPo 1S 3.8v. 33.4 Wh. 130C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 153.1 g. Allowed: 146/158 g.	03.01.22
United Sino Enterprises	ORCA Infinite X # LP21IN1S86S		United Sino Ent. LiPo 1S 3.7v. 31.8 Wh. 135C Max charge rate: 1C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 159.1 g. Allowed: 154/166 g.	03.01.22
Trinity Revtech Epic	Trinity White Carbon #TEP2313		Trinity LiPo 1S 3.7v. 29.6 Wh. 130C Max charge rate: 1C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 163.7 g. Allowed: 155/167 g.	03.01.22
No batteries were homologated for 2021, as batteries from 2020 were not fully utilised due to event cancellations.					
BATTERIES BELOW THIS LEVEL WERE APPROVED BY EFRA FOR 2020 AND ARE ALLOWED AT 2024 EVENTS.					
Associated Electrics	Reedy Zappers SG3 # 27351		Reedy LiPo 1S 3.8v. 32.0 Wh. 85C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 152.6 g. Allowed: 151/163 g.	10.01.20
Freemax Technology	Arrowmax # AM 700303		Arrowmax LiPo 1S 3.7v. 29.6 Wh. 120C Max charge rate: 1C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 160.8 g. Allowed: 153/165 g.	10.01.20
Intellect Battery	IP # CC1S6600PT1		Intellect LiPo 1S 3.8v. 25.0 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 155.8 g. Allowed: 149/161 g.	10.01.20
Intellect Battery	IP # CC1S8200PT1		Intellect LiPo 1S 3.8v. 31.0 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 153.9 g. Allowed: 149/161 g.	10.01.20
Hoomark	Zombie # S80001201S		Hoomark LiPo 1S 3.7v. 29.6 Wh. 120C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 154.9 g. Allowed: 151/163 g.	10.01.20
Modern Creations	T/Silverback Spiral-Z # Z85001201SIN		Modern Creations LiPo 1S 3.7v. 31.5 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 152.3 g. Allowed: 150/162 g.	10.01.20
Shenzhen Grepow	GensAce # 120C76001S2P HC58-HV		GensAce LiPo 1S 3.8v. 28.9 Wh. 120C Max charge rate: 1C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 139.2 g. Allowed: 134/146 g.	10.01.20
Shenzhen Grepow	GensAce Redline # 130C80001S2P HC58-HV		GensAce LiPo 1S 3.8v. 30.4 Wh. 130C Max charge rate: 1C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 147.1 g. Allowed: 144/156 g.	10.01.20
Xiamen 3-Circles	Sunpadow Platin # JA0005		3-Circles LiPo 1S 3.7v. 29.6 Wh. 110C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 154.5 g. Allowed: 148/160 g.	10.01.20
BATTERIES BELOW THIS LEVEL WERE APPROVED BY EFRA FOR 2019 AND ARE ALLOWED AT 2024 EVENTS.					
Associated Electrics	Reedy Zappers SG2 # 27339		Reedy LiPo 1S 3.8v. 26.0 Wh. 110C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 151.0 g. Allowed: 144/156 g.	16.01.19

Associated Electric	Reedy Zappers SG2 # 27340		Reedy LiPo 1S 3.8v. 32.0 Wh. 80C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 151.9 g. Allowed: 144/156 g.	16.01.19
Team Corally	Corally Voltax # 49637		Corally LiPo 1S 3.8v. 25.1 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 151.6 g. Allowed: 144/156 g.	16.01.19
Team Corally	Corally Voltax # 49636		Corally LiPo 1S 3.8v. 31.2 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 152.1 g. Allowed: 144/156 g.	16.01.19
Intellect Battery	IP # CC1S6600HV4		Intellect LiPo 1S 3.8v. 25.0 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 151.9 g. Allowed: 144/156 g.	16.01.19
Intellect Battery	IP # CC1S8200HV4		Intellect LiPo 1S 3.8v. 31.0 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 151.6 g. Allowed: 144/156 g.	16.01.19
Modern Creations	T/Silverback Spiral-G # 82001201SIN		Modern Creations LiPo 1S 3.7v. 30.3 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 151.7 g. Allowed: 150/162 g.	16.01.19
PK Racing	PK Racing Asuga # PK-200-004		PK Racing LiPo 1S 3.8v. 25.1 Wh. 100C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 153.9 g. Allowed: 144/156 g.	16.01.19
PK Racing	PK Racing Asuga # PK-200-005		PK Racing LiPo 1S 3.8v. 31.2 Wh. 100C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 150.9 g. Allowed: 144/156 g.	16.01.19
ProTek RC	ProTek RC # PTK-5125-19		ProTek LiPo 1S 3.8v. 25.8 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 152.6 g. Allowed: 144/156 g.	16.01.19
ProTek RC	ProTek RC # PTK-5105-19		ProTek LiPo 1S 3.8v. 30.7 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 152.3 g. Allowed: 144/156 g.	16.01.19
Tianco	ORCA Infinite X # LP18IN1S85S		Tianco LiPo 1S 3.7v. 31.5 Wh. 130C Max charge rate: 1C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 158.4 g. Allowed: 153/165 g.	16.01.19
Xiamen 3-Circles	Sunpadow # 5660045		3-Circles LiPo 1S 3.7v. 22.2 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 154.7 g. Allowed: 151/163 g.	16.01.19
Xiamen 3-Circles	Sunpadow # S663067		3-Circles LiPo 1S 3.7v. 23.3 Wh. 130C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 152.8 g. Allowed: 150/162 g.	16.01.19
Xiamen 3-Circles	Sunpadow # H680042		3-Circles LiPo 1S 3.8v. 30.4 Wh. 100C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 156.8 g. Allowed: 152/164 g.	16.01.19

Xiamen 3-Circles	Sunpadow # S682068		3-Circles LiPo 1S 3.7v. 30.3 Wh. 100C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 162.2 g. Allowed: 159/173 g.	16.01.19
CML	Centro # C5001		Centro LiPo 1S 3.7v. 29.6 Wh. 100C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 158.6 g. Allowed: 150/162 g.	16.01.19
Team EAM	EAM # EAM80110-1		EAM LiPo 1S 3.7v. 29.6 Wh. 110C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 155.1 g. Allowed: 151/163 g.	16.01.19
BATTERIES BELOW THIS LEVEL WERE APPROVED BY EFRA FOR 2018 AND ARE ALLOWED AT 2024 EVENTS.					
Associated Electrics	Reedy Zappers SG # 27326		Reedy LiPo 1S 3.8v. 32.0 Wh. 110C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 149.4 g. Allowed: 144/156 g.	18.01.18
Freemax Technology	Arrowmax # AM 700302		Arrowmax LiPo 1S 3.7v. 29.6 Wh. 110C Max charge rate: 3C 5 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 154.7 g. Allowed: 149/161 g.	18.01.18
Intellect Battery	IP # CC1S7000HV3		Intellect LiPo 1S 3.8v. 27.0 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 149.3 g. Allowed: 144/156 g.	18.01.18
Intellect Battery	IP # CC1S8200HV3		Intellect LiPo 1S 3.8v. 31.0 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 148.3 g. Allowed: 144/156 g.	18.01.18
LRP	LRP P4 Stock Spec. # 430270		LRP LiPo 1S 3.7v. 23.0 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 153.3 g. Allowed: 144/156 g.	18.01.18
LRP	LRP P4 Ultra LCG # 430268		LRP LiPo 1S 3.7v. 29.6 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 157.5 g. Allowed: 152/164 g.	18.01.18
Neidhart SA	Orion Ultimate # ORI 14510		Orion LiPo 1S 3.7v. 26.6 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 140.5 g. Allowed: 136/148 g.	18.01.18
Neidhart SA	Orion Ultimate HV # ORI 14500		Orion LiPo 1S 3.8v. 28.9 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 143.0 g. Allowed: 137/149 g.	18.01.18
Team Corally	Corally Voltax # 49635		Corally LiPo 1S 3.8v. 30.4 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 148.3 g. Allowed: 144/155 g.	18.01.18
Tianco	ORCA HV Gen. 4 # OBH4851S		Tianco LiPo 1S 3.8v. 32.3 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 146.6 g. Allowed: 144/156 g.	18.01.18
Italtrading	EZ-Power # EZP8000/1		Ital LiPo 1S 3.8v. 30.4 Wh. 140C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 145.6 g. Allowed: 144/156 g.	18.01.18

BATTERIES BELOW THIS LEVEL WERE APPROVED BY EFRA FOR 2017 AND ARE ALLOWED AT 2024 EVENTS.

Intellect Battery	IP # CC1S8200HV2		Intellect LiPo 1S 3.8v. 31.0 Wh. 120C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 152.0 g. Allowed: 146/158 g.	05.01.17
Modern Creations	Team Silverback Siren-HV # HV80001001SIN		Modern Creations LiPo 1S 3.8v. 30.4 Wh. 100C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 148.5 g. Allowed: 142/154 g.	05.01.17
Team Corally	Corally Platinum V+ # 48331		Corally LiPo 1S 3.7v. 25.2 Wh. 100C Max charge rate:1.4C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 149.1 g. Allowed: 144/156 g.	05.01.17
Team Corally	Corally Platinum V+ # 48333		Corally LiPo 1S 3.7v. 28.9 Wh. 100C Max charge rate:1.6C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 148.2 g. Allowed: 144/156 g.	05.01.17
Team Corally	Corally Coral-X # 48370		Corally LiPo 1S 3.8v. 28.5 Wh. 100C Max charge rate:1.5C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 147.2 g. Allowed: 142/154 g.	05.01.17
Tianco	ORCA Gen. 3 # OBH380C-1		Tianco LiPo 1S 3.8v. 30.4 Wh. 110C Max charge rate: 3C 4 mm. Tubes	Sample complies with EFRA dimensions. Weights:- Sample: 152.5 g. Allowed: 146/158 g.	05.01.17

Paul Worsley, (EFRA Battery Homologation Officer). Updated - 01.01.24. (Six Pages).