

# FULBAT<sup>®</sup>

## STARTER BATTERY

### LAWN & GARDEN BATTERY RANGE



SLA | CA/CA | DRY | VRLA | ROBOT



Feel the Power!

2022-2023



# ABOUT US



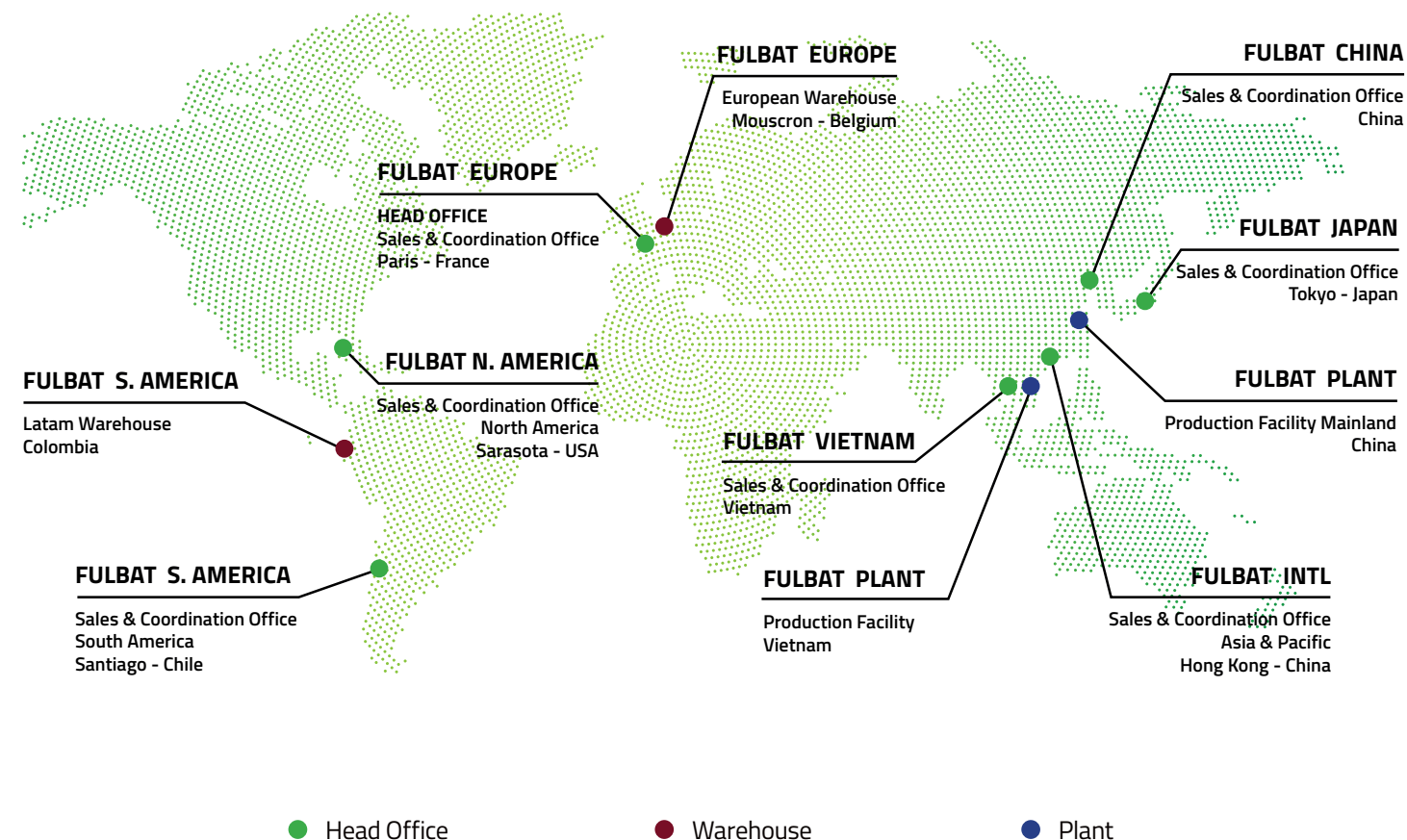
French based company, Fulbat is a leading force in the battery business, present in both replacement and OEM markets. Founded in 2005, we are constantly developing, manufacturing, marketing and selling lead-acid batteries, as well as lithium batteries and battery chargers.

With our technical knowledges and experience, we are able to design new innovative battery solutions to meet the current customers' expectations. We offer an exhaustive program of Starter batteries, Industrial batteries and Motive Power batteries, covering a full range of application. Our Starter Battery range is designed to cover all powersport applications and Lawn & Garden applications.

Fulbat batteries and chargers are widely distributed on all continents through a strong distributor's network, and are very well recognized as qualitative, performing and reliable products.

Manufactured according to the most innovative production processes, Fulbat products are certified by ISO 9001, ISO 14001 and TS 16949.

## WORLDWIDE PRESENCE



# INTRODUCTION



No matter what type of vehicle you have or how you use it, our wide range of starter batteries has been developed to satisfy all current market requirements.

Composed of a comprehensive line of batteries, Fulbat Starter Battery offers different technologies: SLA, Ca/Ca, DRY, VRLA & ROBOT.

Fulbat batteries will provide multiple and varied benefits: high starting performance, light weight, ready to use, maintenance free, vibration resistance and many others, whether for leisure or professional use.

From 1<sup>st</sup> February 2021, a new EU regulation for the sale of acid for batteries came into force. On that date, the sale of electrolyte for batteries (sulfuric acid), has been prohibited to end users (non-professionals), and only professionals are now entitled to acquire batteries with an electrolyte pack. As a battery specialist, Fulbat maintains all its product ranges and offers the widest ready to use battery range.

## APPLICATIONS

Fulbat Starter Battery covers the wide majority of lawn & garden applications.

### LAWN & GARDEN



### ROBOT





# SLA RANGE

Ready to use & non-spillable

SLA battery range is designed to offer maximum performance and safety! Ready to use, the Sealed Lead Acid (SLA) battery will not require any acid handling, initial preparation or maintenance. Its non-spillable design linked to its high performance make it the ideal battery for all ride-on mowers.

# Ca/Ca RANGE

Ready to use

Calcium/Calcium battery range is designed to offer higher starting power and a longer service life. Ready to use and easy to install, Ca/Ca battery will not require any acid handling. Its design allows it to have a low water consumption and no maintenance will be necessary during its entire service life.

## FEATURES

- ✓ AGM technology (factory activated)
- ✓ Ready to use
- ✓ 100% maintenance free
- ✓ Non-spillable: easy to ship
- ✓ Higher cycle life
- ✓ Ultra safe & highly vibration resistant
- ✓ Minimized plate sulfation
- ✓ Suitable for cold weather



## COMPATIBLE CHARGERS

- ✓ Fulload 1000
- ✓ Fulbank 2000
- ✓ Fulload F4

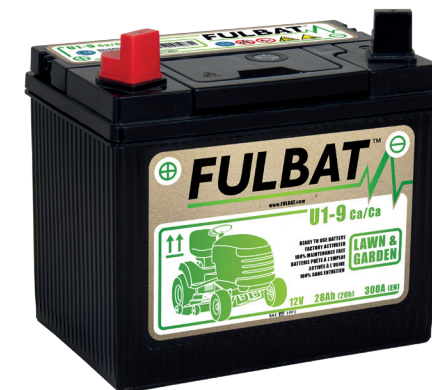
NON-SPILLABLE



Fulbat designation	Voltage (V)	Capacity Ah (10h)	Capacity Ah (20h)	CCA A (-18°C)	Dimensions (±2mm)			Assembly drawing	Terminal 3D
					L	W	H		
U1-9 SLA (12N24-4A)	12	-	28	300	195	125	176		
U1R-9 SLA (12N24-3A)	12	-	28	300	195	125	176		
U1-12 SLA (12N24-4A)	12	-	32	400	195	125	176		
U1R-12 SLA (12N24-3A)	12	-	32	400	195	125	176		
SLA12-18	12	18	18.9	150	182	77	168		
SLA12-20	12	20	21.1	180	182	77	168		
SLA12-22	12	22	23.1	210	182	77	168		
FTX16	12	14	14.7	230	150	87	161		
FTZ75	12	6	6.3	130	113	70	105		
FB14L-A2 (12N14-3A)	12	14	14.7	175	135	90	167		
FB14-A2 (12N14-4A)	12	14	14.7	175	135	90	167		
F50-N18L-A (12N18-3A)	12	21	22.1	350	205	87	162		
53030 (F60-N30L-A)	12	30	31.6	300	178	123	166		
53034 (F60-N30-A)	12	30	31.6	300	178	123	166		

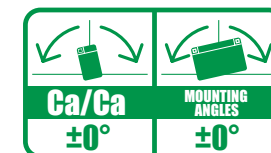
## FEATURES

- ✓ Calcium technology
- ✓ Ready to use
- ✓ 100% maintenance free
- ✓ Increased power & extended service life
- ✓ High vibration resistance
- ✓ Lightweight polypropylene container
- ✓ Heat-sealed container with flat top cover
- ✓ Venting systems
- ✓ Handle & "magic eye" charge indicator

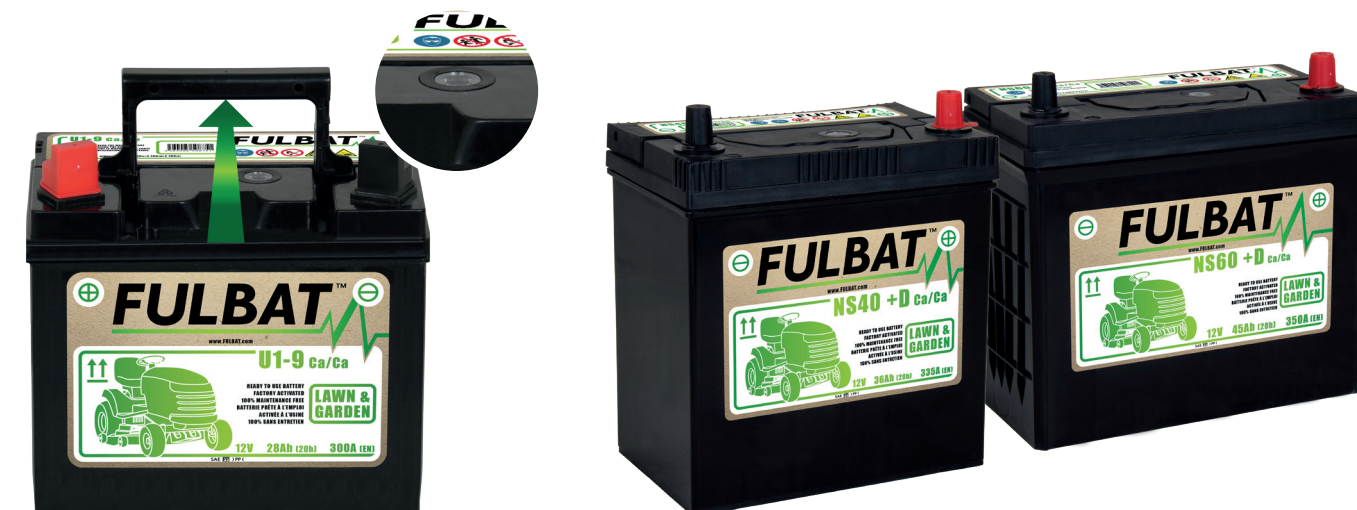


## COMPATIBLE CHARGERS

- ✓ Fulload 1000
- ✓ Fulbank 2000
- ✓ Fulload F4



Fulbat designation	Voltage (V)	Capacity Ah (10h)	Capacity Ah (20h)	CCA A (-18°C)	Dimensions (±2mm)			Assembly drawing	Terminal 3D
					L	W	H		
U1-9 Ca/Ca (handle+ magic eye)	12	-	28	300	195	130	180		
U1R-9 Ca/Ca (handle+ magic eye)	12	-	28	300	195	130	180		
NS40 (+D)	12	-	36	335	195	126	221		
NS40 (+G)	12	-	36	335	195	126	221		
NS60 (+D)	12	-	45	350	236	128	222		
NS60 (+G)	12	-	45	350	236	128	222		





## DRY RANGE

Easy to store

DRY battery range is designed to offer reliable starting power. Delivered with an acid pack, the DRY battery must be activated before the first use and must be checked periodically. DRY charged construction, no maintenance is necessary during a long period of storage.

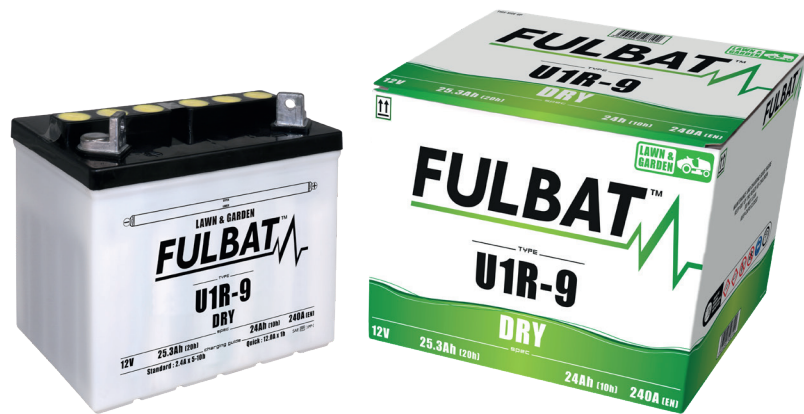
## VRLA RANGE

General purpose applications

VRLA batteries are general purpose batteries with 5 years design life in float service. With advanced AGM valve regulated technology, these batteries ensure high performance and reliability. They can also be used for light cycling use.

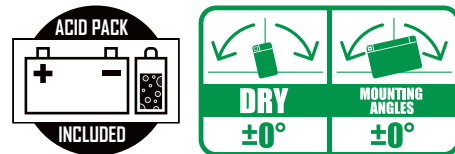
### FEATURES

- ✓ DRY charged technology
- ✓ Activation before first use
- ✓ Periodically maintenance and refilled if necessary
- ✓ Upright installation only
- ✓ Regular life duration
- ✓ Unlimited shelf life



### COMPATIBLE CHARGERS

- ✓ Fulload 1000
- ✓ Fulbank 2000
- ✓ Fulload F4



Fulbat designation	Voltage (V)	Capacity Ah (10h)	Capacity Ah (20h)	CCA A (-18°C)	Dimensions (±2mm)			Assembly drawing	Terminal 3D
					L	W	H		
12N12A-4A-1 (FB12A-A)	12	12	12.6	155	134	80	160		
12N14-3A (FB14L-A2)	12	14	14.7	125	134	89	166		
12N14-4A (FB14-A2)	12	14	14.7	125	134	89	166		
12N18-4A	12	18	18.9	170	205	90	162		
F50N18L-A/12N18-3A	12	20	21.1	260	205	90	162		
F50-N18A-A	12	20	21.1	260	205	90	176		
12N24-3A	12	24	25.3	220	184	124	175		
12N24-4A	12	24	25.3	220	184	124	175		
U1-9	12	24	25.3	240	195	130	180		
U1R-9	12	24	25.3	240	195	130	180		
53030 (F60-N30L-A)	12	-	30	300	186	130	171		
53034 (F60-N30-A)	12	-	30	300	186	130	171		

### FEATURES

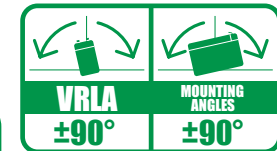
- ✓ AGM technology
- ✓ 100 % maintenance free (VRLA design)
- ✓ Non-spillable: easy to ship
- ✓ Deep discharge protection
- ✓ No corrosion
- ✓ Multi-positional fitment
- ✓ Low gassing
- ✓ Long shelf life
- ✓ Very good cycling and stationary performance



### COMPATIBLE CHARGERS

- ✓ Fulload 1000
- ✓ Fulbank 2000
- ✓ Fulload F4

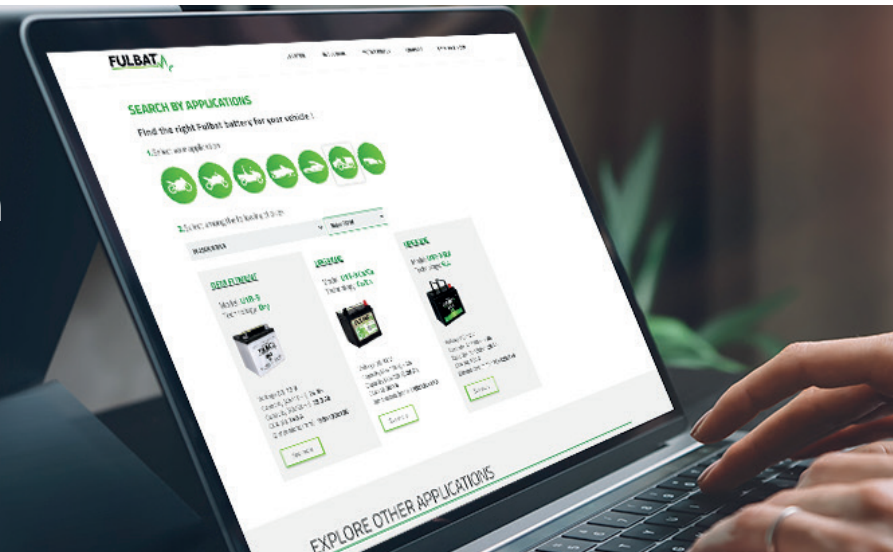
NON-SPILLABLE



Fulbat designation	Voltage (V)	Capacity Ah (10h)	Capacity Ah (20h)	CCA A (-18°C)	Dimensions (±2mm)			Assembly drawing	Terminal 3D
					L	W	H		
FP12-4.5	12	4.2	4.5	-	90	101	107		
FP12-7.2	12	6.7	7.2	-	151	65	99		
FP12-10H	12	9.3	10	-	151	65	117		
FP12-12	12	11.2	12	-	151	98	101		

## BATTERY FINDER

Find the right battery for your vehicle on [fulbat.com](http://fulbat.com)





# ROBOT RANGE

Powerful & safe

FL Series is a complete range of batteries for robot mowers specially designed for intensive charge and discharge use. Equipped with high-quality and high-capacity lithium cells, this range thus offers the robot great autonomy in working.

## FEATURES

- Compatible battery type
- High cycle life
- High autonomy: capacity sometimes higher than the original battery
- High quality lithium cells
- Very safe thanks to integrated BMS
- More than 200 models of robots covered



Fulbat designation		Voltage (V)	Capacity (Ah)	Power (Wh)	Technology	Dimensions (±2mm)			Compatibility (not exhaustive)	OEM part numbers*
AL-KO	FL-AL01	18	2.5	45	Li-ion	94	69	25.5	AL-KO Robolinho 100; 110; 41.6...	440454 441154
	FL-AL02	25.2	5	126	Li-ion	128	69	50	AL-KO Robolinho 82.8; 116; 3000; 4000...	440530 441188
AMBROGIO STIGA	FL-ST01	25.2	8.7	219.2	Li-ion	150	64	93	AMBROGIO Type L100 Serie STIGA Autoclip 140; 325; 520...	CS_C0106/1 1126913801
	FL-ST02	25.2	13.8	347.7	Li-ion	302	156.8	41	AMBROGIO Type L200; L300 Serie STIGA Autoclip 720S; 920S	CS C0114 1126-9121-01
	FL-ST03	25.2	2.6	65.5	Li-ion	144	76.9	38	AMBROGIO L30; L75; L85... STIGA Autoclip 125; 127; 145; 223; 225S	075Z01300A 1126913701
AMBROGIO ZUCCHETTI WIPER	FL-ZU01	25,9	2,6	67,3	Li-ion	129	67	28	AMBROGIO L15; L20; L60; Twenty; Twenty Elite S+ WIPER i70; i100S; Climber; Q350	015E00600A 050Z38600A
BOSCH	FL-BS01	32.4	3	97.2	Li-ion	217	85	58	BOSCH Indigo 800; 850; 1000; 1100 Connect; 1200 Connect; 1300; 3600...	3 600 HA2 000
HUSQVARNA GARDENA	FL-HU01	18	2	36	Li-ion	70.5	66	57	HUSQVARNA Automower 105; 305; 308... MCCULLOCH; FLYMO; GARDENA	574 47 68-01
	FL-HU06 (with PCM)	18	2	36	Li-ion	69	56	67	HUSQVARNA Automower 105; 305; 308... MCCULLOCH; FLYMO; GARDENA	589 58 61-01 586 57 62-012
	FL-HU02	18	2.5	45	Li-ion	91.5	67	26	HUSQVARNA Automower 310; 315... GARDENA R100; R160	584 82 28-02
	FL-HU03	18	4	72	Li-ion	146.2	67.6	38.8	HUSQVARNA Automower 320 (2013>); 330X (2013>); 420 (2016>); 520 (2018>)	589 58 52-01 588 14 64-01
	FL-HU04	18	5.2	93.6	Li-ion	146.2	67.6	38.8	HUSQVARNA Automower 430X (2016>); 440 (2017>); 450X (2016>); 550 (2018>)	589 58 57-01 589 58 58-02
	FH-HU05	18	2.2	39.6	NiMH	215	67.6	22.7	HUSQVARNA 220AC; 230ACX; 265ACX...	535 12 09-01 535 12 09-02
	FL-HU07	22	5.2	114.4	Li-ion	220	67	22	HUSQVARNA Automower 265ACX (2012>2015); 265ACX G2-2	578 84 87-02 578 84 87-01
ROBOMOW	FP-RM01	12	7.2	86.4	AGM	151	99	65	ROBOMOW RX12U; RX20U; RX20 Pro...	MRK9101A
	FL-RM02	25.6	3	76.8	LiFePO4	212	164	108	ROBOMOW City MC150; 300; 1000; 1200... ROBOMOW Premium RC304u; RC306	MRK7005A
	FL-RM03	25.6	6.6	168.9	LiFePO4	216	56	79	ROBOMOW RS612; RS622; RS635... WOLF GARTEN RS1000; RS1800; RS3000	MRK6105A
WORX	FL-WX01	20	2	40	Li-ion	109.5	75	46	WORX Landroid L2000; M1000; M700...	WA3551.1
	FL-WX02	20	5	100	Li-ion	109.5	75	64	WORX Landroid L2000; M1000; M700...	WA3556
	FL-WX03	28	2.5	70	Li-ion	103.7	48.8	72.1	WORX Landroid L1500i; M500; WG754E; WG790...	WA3225

\*Non exhaustive

# ROBOT RANGE

Our different models



FL-AL01



FL-AL02



FL-ST01



FL-ST02



FL-ST03



FL-ZU01



FL-BS01



FL-HU01



FL-HU06



FL-HU02



FL-HU03



FH-HU04



FH-HU05



FL-HU07



FL-RM01



FL-RM02



FL-RM03



FL-WX01



FL-WX02



FL-WX03



# CHARGERS

# CHARGERS

Whether it is to charge or maintain lead-acid or lithium batteries (LiFePO4), Fulbat chargers will be able to answer all your needs, from the smallest battery to the largest capacity. Designed with different charging stages, our automatic smart chargers will guarantee optimum charging efficiency and safety.

## FULLLOAD 1000

**BATTERY COMPATIBILITY: LEAD-ACID & LITHIUM**  
**VOLTAGE: 6V/12V**  
**CHARGING RATE: 1A**  
**STAGES: 3**

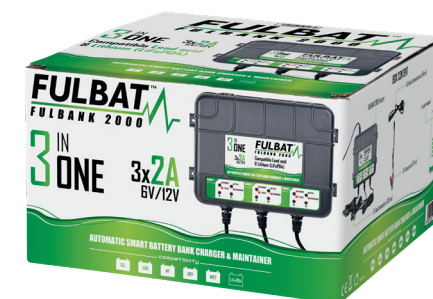
- Charges and maintains 6V/12V lead-acid batteries (GEL, AGM, MF, DRY, Ca/Ca, WET) and 12V LiFePO4 batteries
- 1A charging current with battery capacity up to 20Ah (maintains all sizes)
- 4 charge modes
- Easy to set up & use: connect, select a charge mode and forget
- Easy to read LED display
- Full protected against short circuit, wrong connections, overcharge and overheat
- Delivered with: 1 clamps set and 1 eyelet terminals set



## FULBANK 2000

**BATTERY COMPATIBILITY: LEAD-ACID & LITHIUM**  
**VOLTAGE: 6V/12V**  
**CHARGING RATE: 3X2A**  
**STAGES: 4**

- Charges & maintains 3 batteries with different voltage and technologies at once
- 2A per bank with battery capacity up to 40Ah (120Ah in maintenance)
- For all batteries: GEL, AGM, MF, DRY, Ca/Ca & LiFePO4
- Easy to read LED display
- Full protected against short circuit, wrong connections, overcharge and overheat
- Splash & dust proof (IP65)
- Delivered with: 3 clamps and 3 fused connection set



## FULLLOAD F4

**BATTERY COMPATIBILITY: LEAD-ACID & LITHIUM**  
**VOLTAGE: 6V/12V**  
**CHARGING RATE: 2-4A**  
**STAGES: 8**

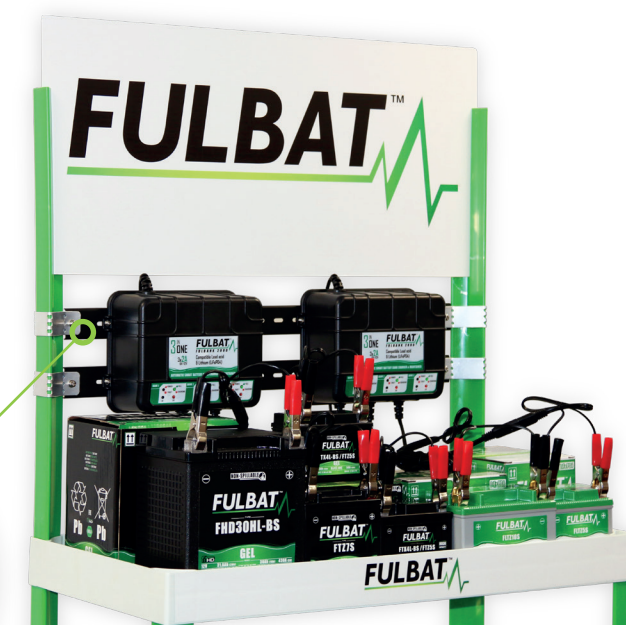
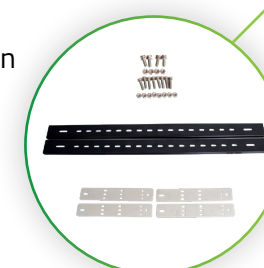
- Charges and maintains 6V/12V lead-acid batteries (GEL, AGM, MF, DRY, Ca/Ca, WET) and 12V LiFePO4 batteries
- 2A or 4A charging current with battery capacity up to 80Ah (maintains all sizes)
- 7 charge modes including 12V repair mode
- Easy to set up & use: connect, select a charge mode and forget
- Easy to read LED display
- Full protected against short circuit, wrong connections, overcharge and overheat
- Delivered with: 1 clamps set and 1 eyelet terminals set



## ASSEMBLY PARTS

**BOX CONTENT:**  
**2x BLACK RAILS**  
**12x SCREWS**  
**12x BOLTS FASTENING**

- To mount up 2 Fulbank 2000 chargers on to battery display
- Up to 6 batteries charged at once
- Ideal to create a small charging station





# BOOSTER

# TESTER & ACCESSORIES

These accessories are ideal for the maintenance of all our ranges of batteries. Whatever your type of application (motorcycle, scooter, quad, jet-ski, lawn mower, etc.), you will always find the Fulbat accessory to maximize your battery's performance.

## FULBOOST

**FUNCTION: BOOSTER, POWERBANK & LIGHT**  
**CAPACITY: 15AH**  
**START CURRENT: 300A**  
**CURRENT PEAK: 600A**

- For vehicles equipped with WET, MF, SLA, GEL, Ca/Ca, AGM, EFB lead-acid battery (12V)
- Start engines up to 5.0L Gasoline & 3.0L diesel
- Charger for all types of electrical appliances by USB
- 3 Light modes: SOS, normal, flash
- Smart cables technology that protect the battery and onboard electronics anti-spark technology, protection against short-circuit, protection against polarity reversal
- Delivered with: protective storage case, smart cable, multiconnectors usb cable, cigarette plug leadset, 12V home charger and 8 pc supply connectors

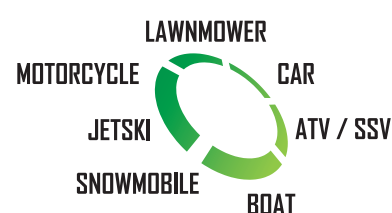


3 IN ONE



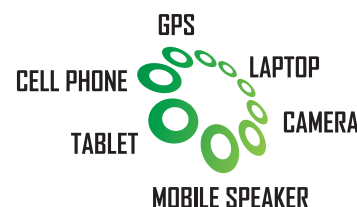
### BOOSTER

For 12V vehicles



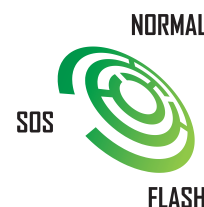
### POWER BANK

For all electrical devices



### TORCH

3 light modes



## FULTEST 1

**FUNCTION: BATTERY & ALTERNATOR TESTER**

- For 12V lead-acid batteries only
- Test the condition of your battery and alternator
- Control the right starting ability of your vehicle
- The ideal tool to verify the state of charge of your battery



## FULCONNECT INDICATOR

**FUNCTION: BATTERY TESTER**  
**CHARGERS COMPATIBILITY: FULLOAD 1000 / FULLOAD F4 / FULBANK 2000**

- For 12V lead-acid batteries only
- Ideal solution if your battery is difficult to access
- Wire length: 500mm
- M8 eyelet terminal



## FULCONNECT

**CHARGERS COMPATIBILITY: FULLOAD 1000 / FULLOAD F4 / FULBANK 2000**

- For 12V lead-acid & lithium batteries
- Ideal solution if your battery is difficult to access
- Wire length: 600mm
- M6 eyelet terminal



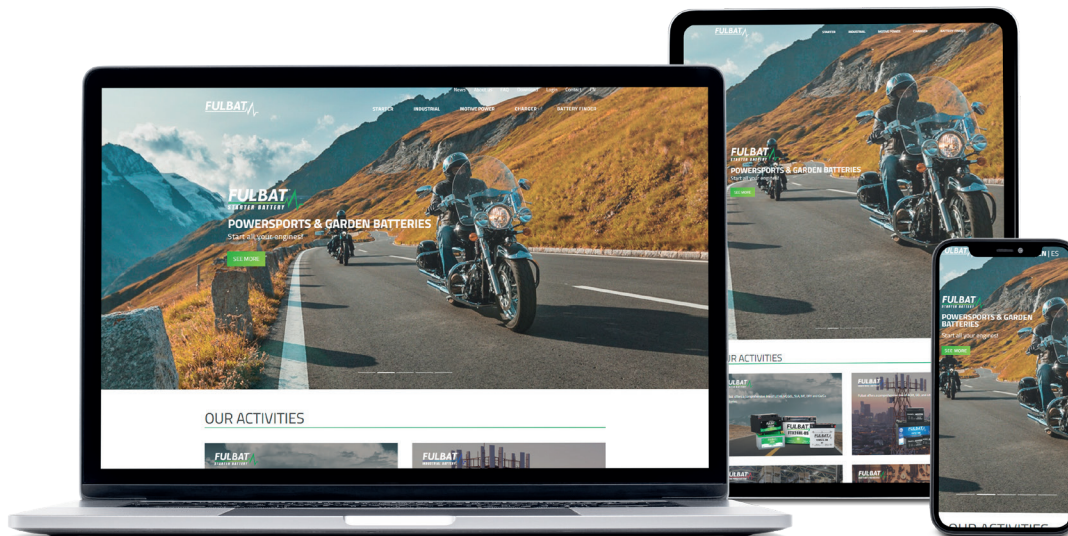
## ADAPTOR GGP

**CHARGERS COMPATIBILITY: FULLOAD 1000 / FULLOAD F4 / FULBANK 2000**

- Ideal solution to charge and maintain batteries inside GGP lawn mowers during winter season
- Just connect the adaptor to the lawn mower and charge as usual

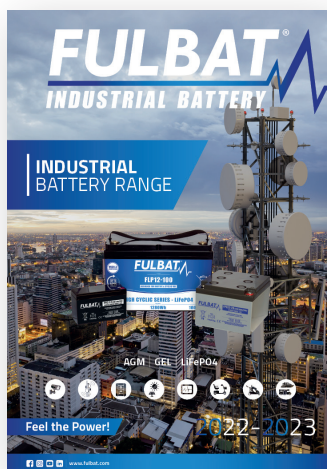






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## DISCOVER **FULBAT** RANGES



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