

FULBAT[®]

MOTIVE POWER BATTERY

MOTIVE POWER BATTERY RANGE

CATALOG 2024

FLOODED | AGM CARBON | LITHIUM



Feel the Power!



www.fulbat.com

ABOUT US



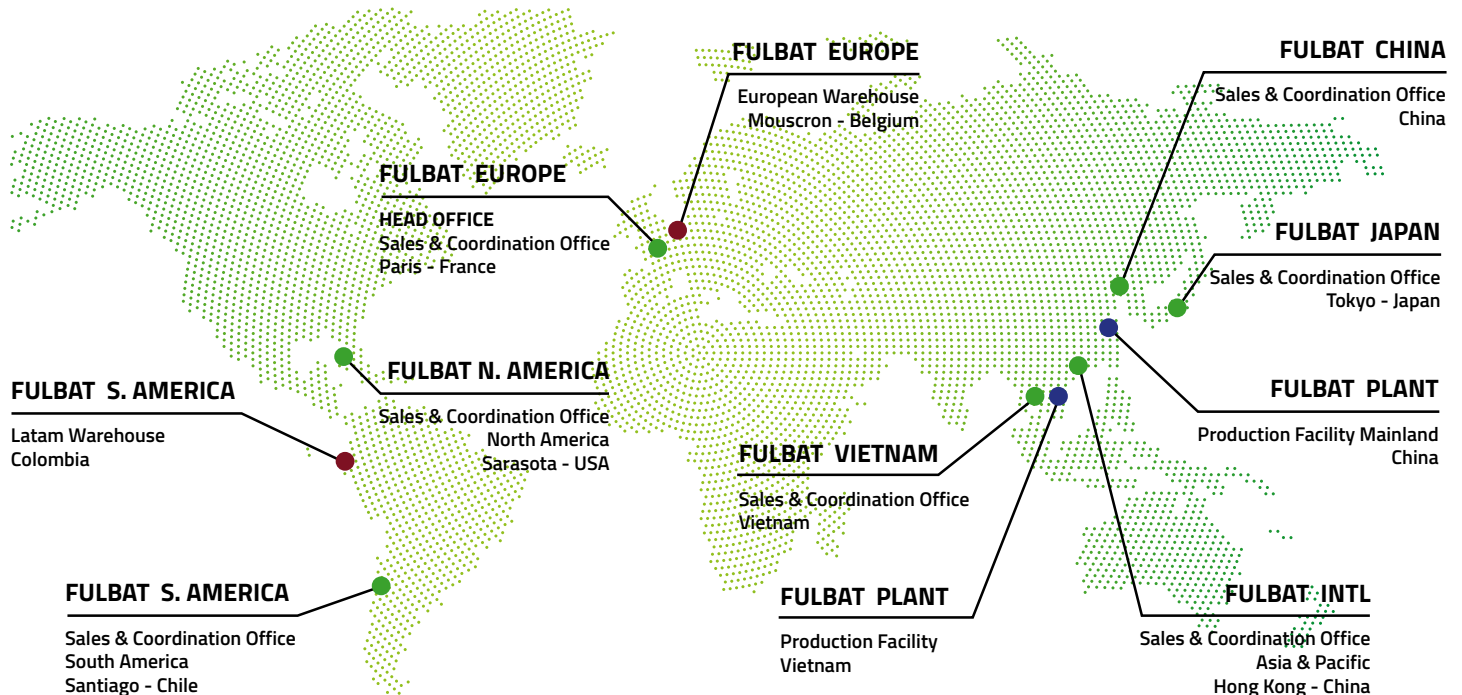
French based company, Fulbat is a leading force in the battery business, present in both replacement and OEM markets. Founded in 2005, we are constantly developing, manufacturing, marketing and selling lead-acid batteries, as well as lithium batteries and battery chargers.

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 Motive Power Battery range is designed to cover Deep Cycle 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



Whether for industrial or leisure use, Fulbat Motive Power offers a complete battery solution for small traction applications that require power and high resistance to deep discharge. Including Flooded (with maintenance), AGM Carbon (non-spillable and maintenance free) and Lithium (maintenance free), Fulbat Deep Cycle range is ideal for applications such as golf carts, aerial work platforms, cleaning machines, marine, leisure and electric vehicles.

APPLICATIONS

Fulbat Motive Power Battery covers the wide majority of golf carts, cleaning machines, aerial work platforms, leisure and marine applications.

GOLF CART



AERIAL WORK PLATFORM



FLOOR CLEANING MACHINE



LEISURE & MARINE



FLOODED RANGE

High performance & resistance

FDC Series are Deep Cycle liquid electrolyte batteries specifically designed for small traction applications (requiring deep discharges).

With robust design made of thick positive & negative grid plates in a special alloy, the FDC Series offer low self-discharge and ensure a long service life with high resistance to cycles.

GENERAL INFORMATIONS

- Technology: flooded lead acid
- Available voltages: 6V, 8V, 12V
- Capacities from 150Ah to 260Ah
- Cycle life:
 - Up to 800 cycles at 80% DOD* (50% capacity @20°C)
 - Up to 1100 cycles at 50% DOD* (50% capacity @20°C)
- Case material: polypropylene



*Depth Of Discharge

FEATURES

- Good deep discharge resilience performance
- Low self-discharge
- Low maintenance
- Polypropylene case material = shock-resistant & acid-resistant
- Terminals with special lead alloy designed for high vibration resistance
- Reinforced grid plates for optimal cyclic use
- Negative plate: 99.9% pure lead with hard paste feature, specific additives for deep cycle purpose
- Very good charging efficiency
- Lower water consumption and reduced thermal runaway possibilities
- Good performance under critical ambient temperature conditions

APPLICATIONS



FLOODED RANGE

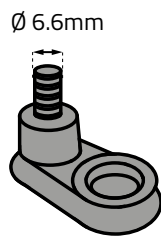
High performance & resistance



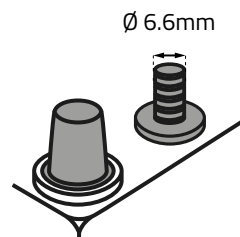
Designation	P/N	Box size	Voltage (V)	Capacity Ah (20Hr)	Capacity Ah (5Hr)	Reserve capacity (capacity minutes)		Dimensions (±2mm)				Polarity	Terminal
						@25A (min)	@75A (min)	L	W	H	Total height		
FDC-605	593001	GC2	6	210	175	383	105	259	179	245	276		EHPT
FDC-105	593002	GC2	6	225	185	447	115	259	179	245	276		EHPT
FDC-125	593003	GC2	6	240	195	488	132	259	179	245	276		EHPT
FDC-305	593037	902	6	330	271	711	195	296	176	343	366		DUAL
FDC-L16	593036	903	6	420	344	850	220	296	176	402	425		DUAL
FDC-875	593005	GC8	8	170	145	295	75	262	181	245	276		EHPT
FDC-1275	593007	GC12	12	150	120	280	70	329	181	245	276		EHPT

Watering kits available for GC2, GC8 and GC12 batteries - p.10

TERMINAL CONFIGURATIONS

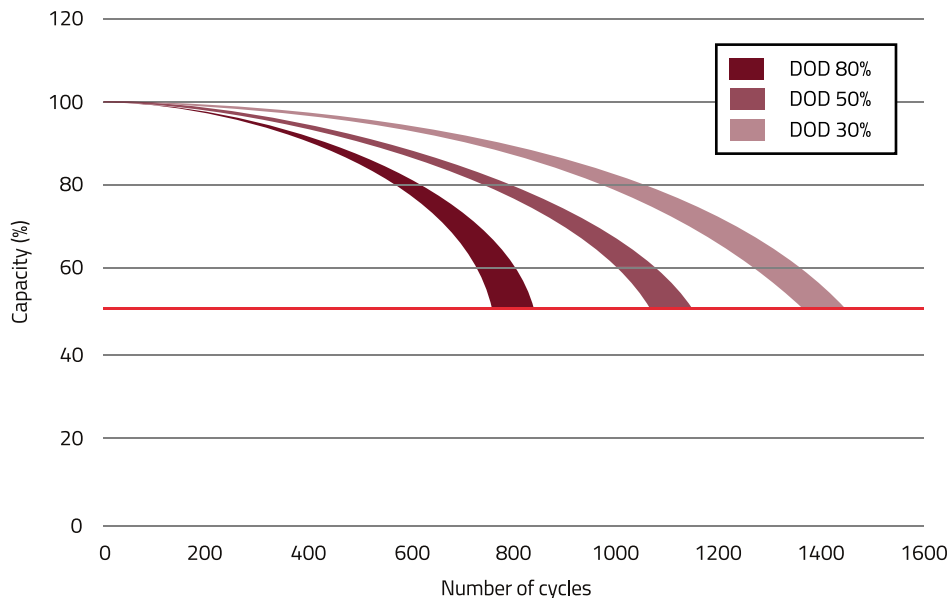


- Terminal height: 38mm
- Torque values: 11 – 12nm
- Bolt terminal: M8



- Bolt terminal: M8

CYCLE LIFE



AGM CARBON RANGE

Non-spillable & maintenance free

FDC AGM Carbon Series are Deep Cycle batteries, maintenance free and non-spillable, specifically designed for frequent discharge deep cycle applications. With strong industrial design, FDC AGM Carbon Series are robust and ensure a maximum service life with high resistance to cycles and also low self-discharge. The carbon additive makes them perform at a high level in case of partial state of charge (PSOC).

GENERAL INFORMATIONS

- Technology: AGM (VRLA)
- Available voltages: 6V, 8V, 12V
- Capacities from 15Ah to 400Ah
- Cycle life:
 - Up to 750 cycles at 80% DOD* (50% capacity @20°C)
 - Up to 1400 cycles at 50% DOD* (50% capacity @20°C)
- Case material: polypropylene

*Depth Of Discharge



NON-SPILLABLE



CARBON ADDITIVE

FEATURES

- Non-spillable & maintenance free
- No acid handling
- Deep cycle design for high capacity and maximum life
- Reinforced grid/plates design for optimal cyclic use
- Carbon additives to perform in partial state of charge (PSOC) and to increase charging efficiency
- No stratification phenomenon
- Robust, safe & reliable
- Low self-discharge rate for longer shelf life

APPLICATIONS



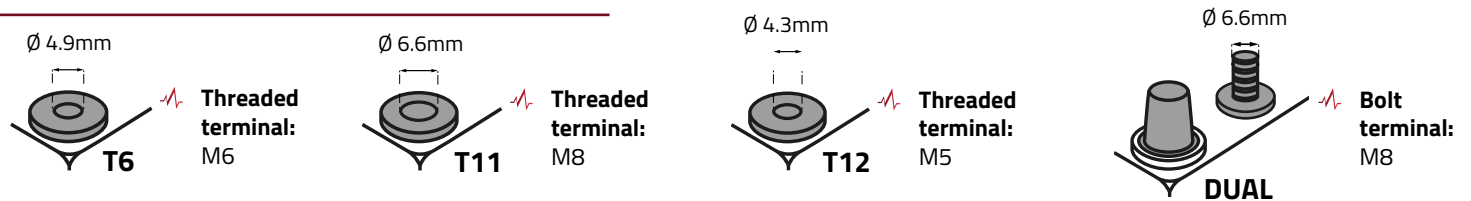
AGM CARBON RANGE

Non-spillable & maintenance free

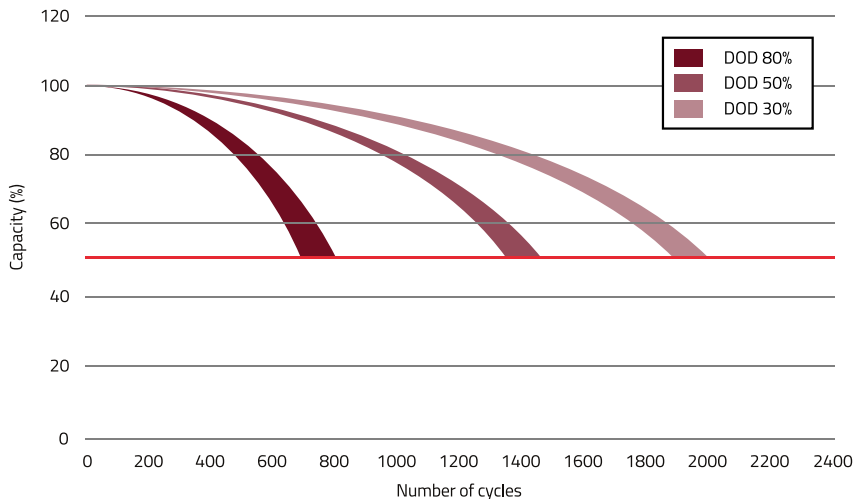


Designation	P/N	Box size	Voltage (V)	Capacity Ah (20Hr)	Capacity Ah (5Hr)	Reserve capacity (capacity minutes)		Dimensions (±2mm)				Polarity	Terminal
						@25A (min)	@75A (min)	L	W	H	Total height		
FDC6-225	593019	GC2	6	225	192	490	135	259	180	247	253	⊖ ⊕	T11
FDC6-245	593010	-	6	245	210	530	145	243	187.5	275	275	⊕ ⊖	T11
FDC6-265	593027	GC2	6	268	230	620	165	262	180	263	268	⊖ ⊕	T11
FDC6-350	593011	902	6	350	305	820	240	295	180	346	368	⊖ ⊕	DUAL
FDC6-400	593012	903	6	400	342	925	265	295	180	406	428	⊖ ⊕	DUAL
FDC8-170	593026	GC8	8	170	145	325	-	260	180	252	274	⊕ ⊖	DUAL
FDC12-14	593022	-	12	15	13.5	-	-	151.5	99.5	95.5	98.2	⊕ ⊖	T12
FDC12-24	593013	-	12	25	22.6	-	-	181.5	77	170	170	⊖ ⊕	T12
FDC12-39	593030	-	12	39	35	-	-	195	130	167	167	⊕ ⊖	T6
FDC12-43	593031	-	12	43	34	-	-	267.5	77.5	171	171	⊖ ⊕	T12
FDC12-46	593020	-	12	53	44	-	-	197	166	170	170	⊖ ⊕	T6
FDC12-55	593033	-	12	55	48	-	-	223	123	172	175	⊕ ⊖	T6
FDC12-60	593025	-	12	68	57	-	-	229	138	216.5	216.5	⊖ ⊕	T6
FDC12-75	593021	-	12	82	71	160	-	260	168	208	214	⊕ ⊖	T6
FDC12-90	593014	24	12	90	77	175	43	260	168	208	232.5	⊕ ⊖	DUAL
FDC12-90	593029	24	12	90	77	175	43	260	168	208	214	⊕ ⊖	T11
FDC12-105	593018	27	12	108	96	220	55	306	168	208	232.5	⊕ ⊖	DUAL
FDC12-105	593023	27	12	108	96	220	55	306	168	208	214	⊕ ⊖	T11
FDC12-115	593015	31	12	118	107	239	65	330	173	212	220	⊕ ⊖	T11
FDC12-145	593016	-	12	148	122	308	88	340	172	280	286	⊕ ⊖	T11
FDC12-150	593017	GC12	12	150	136	323	90	327	180	274	274	⊕ ⊖	T11
FDC12-180	593028	-	12	180	162	395	108	483	170	238.5	238.5	⊕ ⊖	T11

TERMINAL CONFIGURATIONS



CYCLE LIFE



LITHIUM RANGE

High performance & lightweight

FDC Lithium Series are LiFePO₄ batteries, that offer exceptional performance. Including an intelligent built-in Battery Management System (BMS) & CANbus connection to monitor the battery's status, these LiFePO₄ batteries provide an extra layer of protection, ensuring prolonged battery life. FDC Deep Cycle Lithium Series is designed to be a long-lasting, maintenance-free, lightweight and drop-in replacement option for Lead Acid batteries.

GENERAL INFORMATIONS

- Technology: LiFePO₄
- Voltage: 51.2V
- Capacity: 30Ah
- Cycle life:
 - Up to 6000 cycles at 80% DOD* (50% capacity @20°C)
 - Up to 7500 cycles at 50% DOD* (50% capacity @20°C)
- Case material: A.B.S.

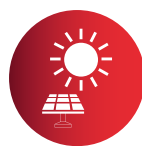
*Depth Of Discharge



FEATURES

- Smart BMS (Battery Management System) self-protects against short circuits, overheating, overcharge, overdischarge and over-current
- Fast charge: under 4 hours
- 2-3X the lifetime of flooded lead acid batteries
- Acid-free design takes away corrosion, acid drips and charging fumes
- State of charge LED indicators
- CAN Bus Communication
- On/Off button to turn the battery off for maintenance or long-term storage
- Up to 10 parallel connections

APPLICATIONS



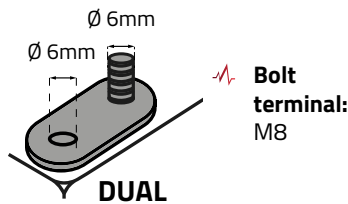
LITHIUM RANGE

High performance & lightweight

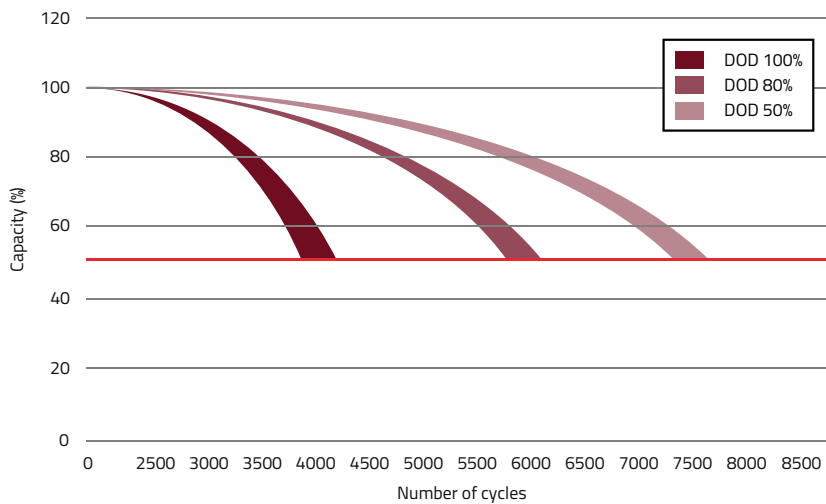


Designation	P/N	Box size	Voltage (V)	Capacity Ah (20Hr)	Capacity Ah (5Hr)	Reserve capacity (capacity minutes)		Dimensions (±2mm)				Polarity	Terminal
						@25A (min)	@75A (min)	L	W	H	Total height		
FDC-GC2-48	592513	GC2	51.2	225	192	490	135	260	180	250	272		DUAL

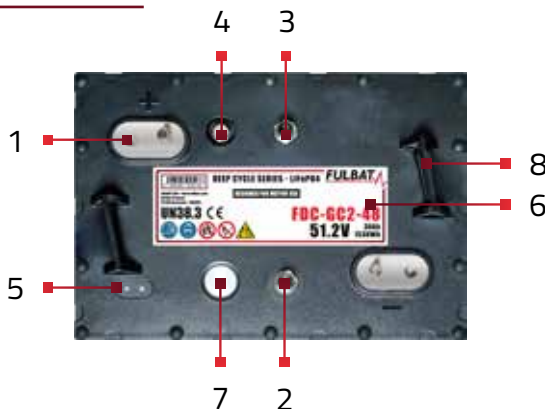
TERMINAL CONFIGURATIONS



CYCLE LIFE



BATTERY DESIGN











1. Dual M8 Terminal
2. Communication port 1
3. Communication port 2
4. Pressure relief valve
5. LED indicators
6. Heatsink
7. Power button
8. Lifting brackets

WATERING KITS

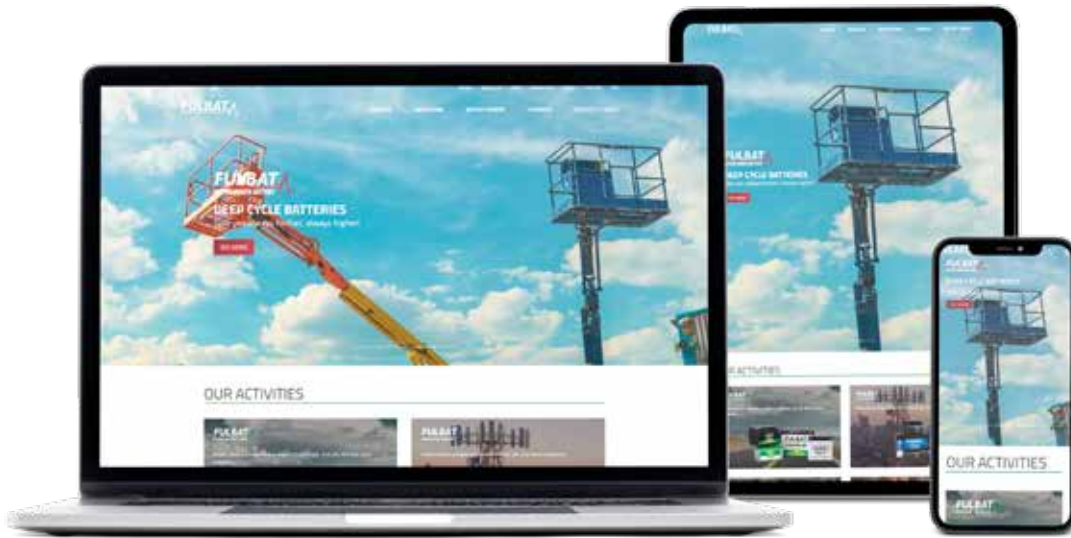
This watering kit simplifies the upkeep of flooded batteries and ensures they are filled to the ideal water level! By automating the watering process, this system boosts efficiency, safety, and battery longevity. These advantages translate into both time and cost savings!



Designation	Watering kit 24V (4x6V)	Watering kit 36V (6x6V)	Watering kit 48V (8x6V)	Watering kit 48V (6x8V)	Watering kit 48V (4x12V)
P/N	750556	750557	750558	750559	750560
System voltage (V)	24V	36V	48V	48V	48V
Battery voltage (V)	6V	6V	6V	8V	12V
Premounted plugs	 x4pcs	 x6pcs	 x8pcs	 x6pcs	 x4pcs
End stoppers	 x2pcs		End stoppers to be placed on a 6mm tube or on an all-in-one male connector.		
All-in-one couple male	 x1pc		<ol style="list-style-type: none"> 1. A decompression valve for the system activates when the user fills the batteries under pressure exceeding 1 bar. 2. An integrated filter can be cleaned by simply pressing on the valve inlet (when the connection still contains water). 3. A flow indicator (yellow balls rotating around the filter) during battery filling. 4. Two outlets for 6mm hose, enabling closed-loop mounting of the filling circuit on the battery. 		
PVC tube	 x1pc		Diameter: 6mm Thickness: 1.5mm Length: 3m		

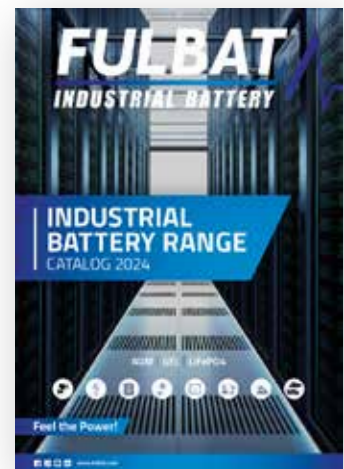
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