

HIGH CYCLIC LiFePO4 RANGE

High performance & light weight

FLP Series are Lithium Iron Phosphate (LiFePO4) batteries specially designed to replace lead acid batteries thanks to their standard size cases and their similar charging voltage.

The FLP Series offer many advantages compared to lead acid in terms of weight, cyclic performance, safety and power.

GENERAL INFORMATIONS

- Use: cyclic use
- Technology: Lithium Iron Phosphate (LiFePO4)
- Available voltages: 6V - 12V
- Capacities from 6Ah to 200Ah
- Cycle life:
 - Up to 2000 cycles at 100% DOD* (50% capacity @20°C)
 - Up to 4000 cycles at 80% DOD* (50% capacity @20°C)
- Case material: ABS UL94-HB

*Depth Of Discharge

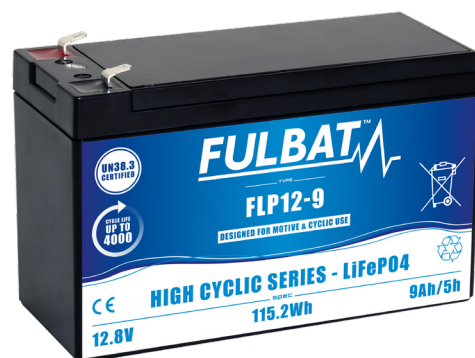


NON-SPILLABLE



FEATURES

- High cyclic performances: x10 compared to AGM standard batteries
- Lighter weight: 60% lighter than lead acid battery
- Very high recovery from deep discharge – up to 100% DOD (vs 50% to 80% for AGM)
- Very high charge and discharge current accepted (to 10 times faster than lead acid batteries)
- Protection circuit integrated (PCM): overcharge protection, overdischarge protection, temperature protection & balancing function
- Wide range of operating temperatures: from -20°C to +60°C
- Safety: non-spillable, no acid in the battery, no risk of explosion, no gas emission
- Operation in any orientation
- PSOC: Partial State Of Charge accepted
- Low self-discharge rate (about 3% per month at 20°C)
- Can be charged with a standard lead acid charger (without desulphation step)
- Power and volume ratio yielding unrivalled energy density

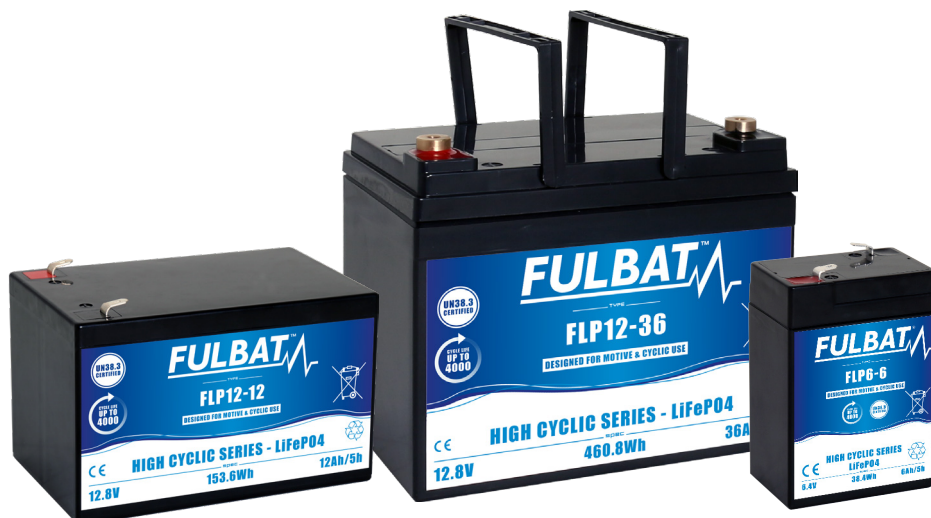
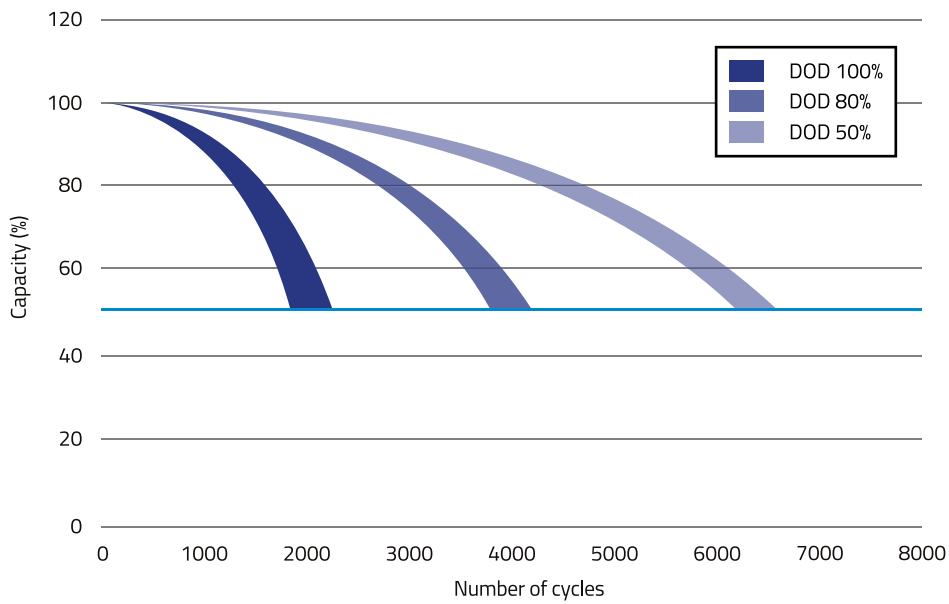


APPLICATIONS



Fulbat designation	Technology	Voltage (V)	Capacity Ah (5Hr)	Dimensions mm (±2mm)				Net weight (kg)	Terminals*	Layout*
				L	W	H	Total height			
FLP6-6	LiFePO4	6.4	6	70	47	101	105	0.35	T2	5
FLP12-9	LiFePO4	12.8	9	151	65	94	99	1.10	T2	4
FLP12-12	LiFePO4	12.8	12	151	98	95	100	1.68	T2	4
FLP12-24	LiFePO4	12.8	24	181	77	167	167	2.90	T12	2
FLP12-36	LiFePO4	12.8	36	195	130	162	162	4.20	T6	1
FLP12-40	LiFePO4	12.8	40	195	165	175	175	5.80	T6	2
FLP12-60	LiFePO4	12.8	60	229	138	217	217	9.50	T6	1
FLP12-100	LiFePO4	12.8	100	326	171.7	212	212	13.90	T11	1
FLP12-150	LiFePO4	12.8	150	483	170	238	238	20.20	T11	1
FLP12-200	LiFePO4	12.8	200	521	233	220	220	22.60	T11	1

CYCLE LIFE



*Terminals / Layout p.14

TERMINALS & LAYOUTS RANGE

TERMINALS DETAILS

<p>T1 terminal Faston type (copper) quick disconnect tabs, silver coating for better conductivity</p>	<p>T2 terminal Faston type (copper) quick disconnect tabs, silver coating for better conductivity</p>	<p>T3 terminal Brass coated with tin</p>	<p>T5 terminal Lead</p>	<p>T6 terminal Copper, Threaded Insert 6mm stud</p>
<p>T9 terminal Lead</p>	<p>T11 terminal Copper, threaded Insert 8mm stud</p>	<p>T12 terminal Copper, threaded insert 5mm stud</p>	<p>Spring terminal Spring steel, fully collapsible</p>	<p>JST Toy battery connector H-Connector</p>

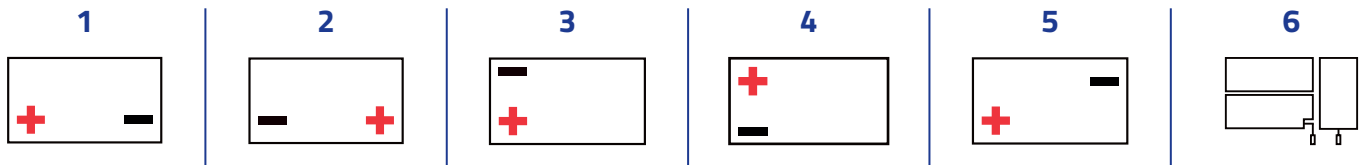
Bolts are included for each battery

(in mm)

3D TERMINALS

<p>T1 terminal</p>	<p>T2 terminal</p>	<p>T3 terminal</p>	<p>T5 terminal</p>	<p>T6 terminal</p>
<p>T9 terminal</p>	<p>T11 terminal</p>	<p>T12 terminal</p>	<p>T13 terminal</p>	<p>JST</p>

LAYOUTS



ACCESSORIES



T11 to automotive adapter



T6 to automotive adapter



T1 to T2 adapter

MAIN BATTERIES BY APPLICATION

SECURITY

Fulbat designation	Technology	Voltage (V)	Capacity Ah (20Hr)	Capacity Ah (10Hr)	Dimensions mm (±2mm)				Net weight (kg)	Terminals*	Layout*
					L	W	H	Total height			
FP12-1.2VdS	AGM	12	1.2	1.1	97	43	52	58	0.57	T1	3
FP12-2.3	AGM	12	2.3	2.1	178	35	60	66	0.97	T1	1
FP12-3.2VdS	AGM	12	3.2	3.0	134	67	59.5	65.5	1.35	T1	3
FP12-7.2	AGM	12	7.2	6.7	151	65	93.5	99.5	2.04	T1	4
FP12-12	AGM	12	12	11.2	151	98	95	101	3.24	T2	4
FP12-18	AGM	12	18	16.7	181.5	76.5	167.5	167.5	5.4	T12	2

UPS

Fulbat designation	Technology	Voltage (V)	Capacity Ah (20Hr)	Capacity Ah (10Hr)	Dimensions mm (±2mm)				Net weight (kg)	Terminals*	Layout*
					L	W	H	Total height			
FP6-7.2	AGM	6	7.2	6.7	150	34	94	100	1.07	T1	1
FP12-5.4	AGM	12	5.4	5.0	90	70	101	107	1.65	T2	1
FP12-5.5	AGM	12	5.5	4.7	151	53	93	99	1.75	T2 + T1	4
FP12-9	AGM	12	9	8.3	151	65	93.5	99.5	2.47	T2	4
FP12-18	AGM	12	18	16.7	181.5	76.5	167.5	167.5	5.4	T12	2

MEDICAL

Fulbat designation	Technology	Voltage (V)	Capacity Ah (20Hr)	Capacity Ah (10Hr)	Dimensions mm (±2mm)				Net weight (kg)	Terminals*	Layout*
					L	W	H	Total height			
FP6-1.2	AGM	6	1.2	1.1	97	24	51.5	57.5	0.29	T1	1
FP6-3.2	AGM	6	3.2	3.0	134	34	60	66	0.67	T1	1
FP6-4.5	AGM	6	4.5	4.2	70	47	100	106	0.81	T1	5
FP6-10	AGM	6	10	9.3	151	50.5	94	100	1.54	T1	1
FP12-1.2VdS	AGM	12	1.2	1.1	97	43	52	58	0.57	T1	3
FP12-2.3	AGM	12	2.3	2.1	178	35	60	66	0.97	T1	1
FP12-3.2VdS	AGM	12	3.2	3.0	134	67	59.5	65.5	1.35	T1	3
FP12-7.2	AGM	12	7.2	6.7	151	65	93.5	99.5	2.04	T1	4
FP12-18	AGM	12	18	16.7	181.5	76.5	167.5	167.5	5.4	T12	2

MOBILITY

Fulbat designation	Technology	Voltage (V)	Capacity Ah (20Hr)	Capacity Ah (10Hr)	Dimensions mm (±2mm)				Net weight (kg)	Terminals*	Layout*
					L	W	H	Total height			
FPC12-13	AGM	12	13.9	13	151	98	95	101	4.05	T2	4
FPC12-20	AGM	12	20	18	181.5	76.5	167.5	167.5	6	T12	2
FPC12-26	AGM	12	26	24.2	165	176	125	125	8.5	T12	2
FPC12-35	AGM	12	35.4	33	195	130	164	182	11.65	T5	1
FPC12-40	AGM	12	40.8	38	197	165	170	170	14.2	T12/T6	2
FPG12-31	GEL	12	31	27.6	195	130	164	178	10.2	T5	1
FPG12-40	GEL	12	40	35	197	165	170	170	13.2	T6	2
FPG12-50	GEL	12	50	46.5	229	138	205	211	16.6	T6	1
FPG12-70	GEL	12	70	64.6	260	168	208	230	24.5	T6	1
FLP12-12	LiFePO4	12.8	-	12 (5Hrs)	151	98	95	100	1.68	T2	4
FLP12-36	LiFePO4	12.8	-	36 (5Hrs)	195	130	162	162	4.2	T6	1
FLP12-40	LiFePO4	12.8	-	40 (5Hrs)	195	165	175	175	5.8	T6	2

GOLF CADDY

Fulbat Designation	Technology	Voltage (V)	Capacity Ah (20Hr)	Capacity Ah (10Hr)	Dimensions mm (±2mm)				Net weight (kg)	Terminals*	Layout*
					L	W	H	Total height			
FPC12-20	AGM	12	20	18	181.5	76.5	167.5	167.5	6	T12	2
FPC12-26	AGM	12	26	24.2	165	176	125	125	8.5	T12	2
FPC12-35	AGM	12	35.4	33	195	130	164	182	11.65	T5	1
FPG12-26	GEL	12	26	24.2	166	175	125	125	8.5	T12	2
FPG12-31	GEL	12	31	27.6	195	130	164	178	10.2	T5	1
FLP12-36	LiFePO4	12.8	-	36 (5Hrs)	195	130	162	162	4.2	T6	1

*Terminals / Layout p.14