

GENERAL PURPOSE AGM RANGE

Maintenance free & reliable

FP Series are general purpose batteries with 5 years design life in float service (8 years from 40Ah). With advanced AGM valve regulated technology and high purity raw material, the FP series batteries ensure high performance and reliable standby service life.

GENERAL INFORMATIONS

- ↗ Use: standby / light cyclic use
- ↗ Technology: AGM (VRLA)
- ↗ Available voltages: 4V - 6V - 12V
- ↗ Capacities from 0.8Ah to 250Ah
- ↗ Design life at 20°C ambient temperature:
 - 5 years up to 33Ah
 - 8 years from 40Ah
- ↗ Case material: ABS UL94-HB / FR version (UL94-V0) in option*

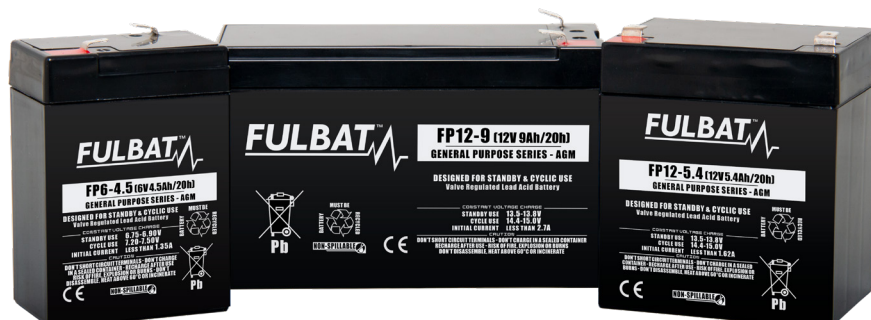


NON-SPILLABLE

FEATURES

- ↗ Maintenance free & non-spillable
- ↗ AGM (Absorbent Glass Mat) technology assures no free electrolyte
- ↗ Low self-discharge rate (about 3% per month at 20°C)
- ↗ Lead calcium grids for superior life
- ↗ Operate in any orientation (excluding continuous inverted use)
- ↗ Wide range of operating temperatures
- ↗ Rugged impact resistance ABS case
- ↗ Low gas emission due to high gas recombination of 99% (VRLA)

APPLICATIONS



*compliant with fire standard EN 60950-1 on flammability and fire resistance.

Fulbat designation	Voltage (V)	Capacity Ah (20Hr)	Capacity Ah (10Hr)	Dimensions mm (±2mm)				Net weight (kg)	Terminals*	Layout*
				L	W	H	Total height			
FP4-3.5	4	3.5	3.3	90	34	59	65	0.45	T1	1
FP6-1.2	6	1.2	1.1	97	24	51.5	57.5	0.29	T1	1
FP6-2.8	6	2.8	2.6	66	33	97	103	0.55	T1	5
FP6-3.2	6	3.2	3	134	34	60	66	0.67	T1	1
FP6-4	6	4	3.7	70	47	100	106	0.65	T1	5
FP6-4.5	6	4.5	4.2	70	47	100	106	0.81	T1	5
FP6-6	6	6	5.6	70	47	100	106	0.9	T1	5
FP6-4.5S	6	4.5	4.2	67	67	96	109	0.78	S	-
FP6-5	6	5	4.7	169.5	34.5	70	74	0.95	T1	1
FP6-7.2	6	7.2	6.7	150	34	94	100	1.07	T1	1
FP6-10	6	10	9.3	151	50.5	94	100	1.54	T1	1
FP6-12	6	12	11.2	151	50.5	94	100	1.63	T2	1
FP12-0.8 (1)	12	0.8	0.8	96	25	62	62	0.36	JST	6
FP12-1.2 (1)(2)	12	1.2	1.1	97	43	52	58	0.57	T1	3
FP12-2.1 (2)	12	2.1	2.1	178	35	60	66	0.97	T1	1
FP12-2.2	12	2.2	2.1	70.5	47.5	97	103	0.8	T1	1
FP12-2.3 (1)	12	2.3	2.1	178	35	60	66	0.97	T1	1
FP12-2.3C	12	2.3	2.1	182	24	61	61	0.8	Contacts	-
FP12-2.6	12	2.6	2.3	178	35	60	66	0.97	T1	4
FP12-2.9	12	2.9	2.7	79	56	99	105	1.1	T1	2
FP12-3.2 (1)(2)	12	3.2	3	134	67	59.5	65.5	1.35	T1	3
FP12-4L	12	4	3.7	195	47	70	76	1.6	T1	1
FP12-4.5 (1)	12	4.5	4.2	90	70	101	107	1.44	T1	1
FP12-5.4	12	5.4	5	90	70	101	107	1.65	T2	1
FP12-5	12	5.4	4.7	151	53	93	99	1.75	T1	4
FP12-5.5	12	5.5	4.7	151	53	93	99	1.75	T2 + T1	4
FP12-7.2 (1)	12	7.2	6.7	151	65	93.5	99.5	2.04	T1	4
FP12-7.8	12	7.8	7.3	151	65	93.5	99.5	2.5	T2	4
FP12-9	12	9	8.3	151	65	93.5	99.5	2.4	T2	4
FP12-10H	12	10	9.3	151	65	111	117	3.2	T2	4
FP12-12 (1)	12	12	11.2	151	98	95	101	3.24	T2	4
FP12-18 (1)	12	18	16.7	181.5	76.5	167.5	167.5	5.4	T12	2
FP12-20	12	20	18.6	181.5	77	167.5	167.5	5.78	T12	2
FP12-24 (1)	12	24	22.3	167	175	125	125	7.2	T12	2
FP12-24H	12	24	22.3	164	125	174	174	8.45	T12	2
FP12-28	12	28	26	166	175	125	125	8.4	T12	2
FP12-33	12	33	30.7	195	130	164	178	10.5	T6	1
FP12-40 (1)	12	40	38	197	165	170	170	12	T6	2
FP12-50	12	50	48	197	165	170	170	14.2	T6	2
FP12-55	12	55	52	257	132	200	200	15.7	T6	1
FP12-60	12	60	56	229	138	205	211	16.2	T6	1
FP12-65 (1)	12	65	62.1	348	167	178	178	21.2	T6	1
FP12-65H	12	65	60	260	168	208	214	18.4	T6	1
FP12-75	12	75	73	348	167	178	178	21.4	T6	1
FP12-80	12	80	78	260	168	208	214	22.3	T6	1
FP12-85H	12	85	83	260	168	208	214	23.8	T6	1
FP12-100	12	104	100	330	173	212	220	30.6	T11	1
FP12-120	12	124.8	120	408	177	225	225	35	T11	1
FP12-150	12	156	150	483	170	238.5	238.5	43.2	T11	1
FP12-200	12	208	200	522	240	218	224	59.8	T11	3
FP12-250	12	260	250	522	268	220	226	72.8	T11	3

(1) Available in FR range / (2) Available in VdS range

*Terminals / Layout p.14

FRONT TERMINAL AGM RANGE

Easy to install & maintain

FFT batteries are designed for applications that demand high levels of reliability and safety, FFT batteries offer a long service life up to 12 years.

Thanks to their front terminal design, these batteries allow rapid installation and easy access for maintenance.

GENERAL INFORMATIONS

- Use: standby
- Technology: AGM (VRLA)
- Available voltage: 12V
- Capacities from 100Ah to 190Ah
- 12 years design life at 25°C ambient temperature
- Case material: ABS UL94-HB / FR version (UL94-V0) in option*



NON-SPILLABLE

FEATURES

- Front access to terminals
- Installation, maintenance and supervision easy
- Ideal for 48V system
- Ideal for 19" or 23" racks or site cabinets
- Maintenance free & non-spillable
- AGM (Absorbent Glass Mat) technology assures no free electrolyte
- Low self-discharge rate (about 3%/month at 20 °C)
- Wide range of operating temperatures
- Low gas emission due to high gas recombination of 99% (VRLA)

APPLICATIONS



Fulbat designation	Voltage (V)	Capacity Ah (20Hr)	Capacity Ah (10Hr)	Dimensions mm (±2mm)				Net weight (kg)	Terminals**	Layout**
				L	W	H	Total height			
FFT12-100	12	106	100	508	110	238.5	238.5	32	T6	2
FFT12-150	12	157.6	150	551	110	288	288	44.5	T6	2
FFT12-190	12	202	190	560	126	320	320	57	T6	2

*compliant with fire standard EN 60950-1 on flammability and fire resistance.

**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>

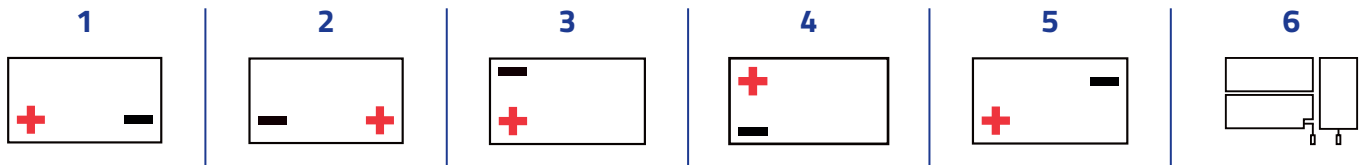
Bolts are included for each battery

(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