Lithium Iron Phosphate Battery

Standard Type Battery

ST Series



RANGE SUMMARY

With smart design and elegant appearance, Superpack LiFePO4 battery ST series (Standard Type Battery) is an ideal replacement for traditional lead acid battery, offering a drop-in solution for lead acid battery replacement. Our battery can be used individually or assembled in series to create larger system.

This series is highly suited for E-mobility, Energy Storage System, Defence & Security, telecom outdoor applications , renewable energy systems and other harsh environment applications.

FEATURES AND BENEFITS

- Over 10 years design life in LiFePO4 battery
- Wide operating temperature range from -25℃ to 60℃
- Maintenance-free, plug, play and charge. No watering
- Reliable partial state of charge. Allows for worry-free storage
- Llightweight, 50-60% less weight than lead-acid equivalent
- Longest life, Up to 10X longer cycle life than lead-acid equivalent
- Constant power, Full power available throughout discharge,
- voltage does not drop like lead-acid
  Long shelf-life,Low self-discharge so battery maintains state of charge

CHARGING VOLTAGEAND SETTINGS

- Constant current, then constant voltage charging is recommended
- Recommended float charge voltage: 13.8V @ 25℃
- Max. charge current allowable : $1C_5A$ *

* For the battery whose capacity is equal to or higher 100Ah, 100A continuous discharge current is recommended.

General Specifications

Model	Voltage (V)	Capacity (Ah)	Max continuous discharge (A)	Dimensions (mm)	Dimensions (in)	Approx. Weight(Kg)	Weight (lbs)	Group size	Batteries in series
SPF12V7.5-ST	12.8	7.5	12	151*65*97	5.9*2.6*3.9	1	2.2		Max 6S
SPF12V10-ST	12.8	10	10	151*99*95	5.9*3.9*3.7	1.3	2.9		Max 6S
SPF12V20-ST	12.8	20	20	181*76*166	7.1*3*6.6	2.6	5.6		Max 6S
SPF12V35-ST	12.8	35	35	195*131*171	7.8*5.2*6.7	4.8	11.0	U1	Max 4S
SPF12V50-ST	12.8	50	50	197*166*171	7.8*6.5*6.8	6.7	14.7		Max 4S
SPF12V75-ST	12.8	75	80	260*168*218	10.2*6.6*8.6	10.7	24.0	24	Max 4S
SPF12V80-ST	12.8	80	80	305*168*219	12*6.6*8.6	11.3	25.0	27	Max 4S
SPF12V100-ST	12.8	100	100	329*172*223	13*6.8*8.8	14	30.8	31	Max 4S
SPF12V100-ST	12.8	100	100	307*168*221	12*6.6*8.6	13.5	30.2	27	Max 4S
SPF12V150-ST	12.8	150	150	520*268*228	20.5*10.6*9	22.1	48.6	8D	Max 4S
SPF12V200-ST	12.8	200	150	520*267*228	20.5*10.5*9	27.7	61.0	8D	Max 4S
SPF12V260-ST	12.8	260	150	520*268*228	20.5*10.6*9	34.2	75.3	8D	Max 4S
SPF12V300-ST	12.8	300	150	520*267*228	20.5*10.5*9	37.5	83	8D	Max 4S

APPLICATIONS

- AGV
- Marine
- Golf Car
- Power Utility
- Floor Scrubber
- Medical Cart
- Recreational Vehicle
- Outdoor Applications
- Telecommunications
- Renewable Energy system





COMPLIED STANDARDS

- IEC62133
- UL1642
- CE (battery)
- UN38.3 (battery)