



INNOLIA ENERGY

INTEGRATED SOLAR, LITHIUM-BATTERY & EV COMPANY

EV BICYCLE SERIES



25.6V battery Pack Lithium Iron Phosphate (LiFePo4): -

- High Service Life: 2500 Cycles for LFP and 1500 Cycle for NMC.
- Deep discharge allowed up to 90%
- Ultra-safe Lithium Iron Phosphate chemistry (no thermal run-away, no fire or explosion risks)
- Constant power during discharge (very low internal resistance)
- Very low Peukert's losses (energy efficiency 98 %)
- Very low self-discharge (<3% per month)
- No memory effect
- Embedded BMS (Battery Management System): Improve lifespan AND secure the battery
- No Lead, no rare earths, no acid, no degassing.



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405 Boulder Count
Pleasanton, CA 94566
(925) 398-8466, (925) 954-4770
team@innoliaenergy.com



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Factory:
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Kuntlagudem, Telangana 508252
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- Calendar life > 10 years
- About 50 % lighter and 40% smaller than equivalent Lead AGM battery with same usable energy
- Certification BIS
- Excellent temperature robustness (-20 °C up to +60 °C)
- RANGE 25.6V 12Ah to 20Ah



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Technical Specification NMC

| APPLICATION | | | | |
|-------------------------------------|---|------------|------------|-----------|
| Parameters | 25.9V 10AH | 25.9V 15AH | 25.9V 30AH | 36V 6AH |
| Chemistry | | | | |
| Chemistry | NMC | | | |
| Cell Specification | 3.7V 2.5AH | 3.7V 2.5AH | 3.7V 2.5AH | 3.7V 2AH |
| Electrical Characteristics | | | | |
| Energy | 259Wh | 388.5Wh | 777Wh | 222Wh |
| Pack combination | 7S 4P | 7S 6P | 7S 12P | 10S 3P |
| Nominal Voltage | 25.9V | 25.9V | 25.9V | 37V |
| Rated Capacity | 10AH | 15AH | 30AH | 6AH |
| Standard Charge Voltage | 29.4V | 29.4V | 29.4V | 42V |
| Max Charging Voltage | 29.4V | 29.4V | 29.4V | 42V |
| End Voltage | 21V | 21V | 21V | 30V |
| Standard Charging Current* | 2A | 3A | 6A | 1.2A |
| Max. Charging Current* | 5A | 8A | 15A | 3A |
| Max. Discharge Current* | 10A | 15A | 30A | 6A |
| Operating Condition and Environment | | | | |
| Temperature °C | Charge: 0 to 50°C | | | |
| | Discharge: -20 to 55°C | | | |
| | Storage: -30~45°C (3month) | | | |
| Life Cycles (at 80% DOD) | 1500 | | | |
| Mechanical Characteristics | | | | |
| Weight | 2.5kg | 2.3kg | 6kg | 2.5kg |
| Dimensions of Cabinet (LxWxH) | 264*85*85 | 315*85*85 | 456*100*85 | 230*85*85 |
| Type of Cabinet | Metal sheet | | | |
| Type of Connector | XT 60 / C14 | | | |
| Protection and Monitoring | | | | |
| BMS Protection | (Short Circuit Protection, Over voltage Protection, Under Voltage Protection, Over Discharge/ Charge Protection/ Temperature) | | | |
| Communication | CAN/Bluetooth (Optional) | | | |





| APPLICATION | | | | |
|-------------------------------------|---|------------|------------|------------|
| Parameters | 36V 7.5AH | 36V 8.8AH | 36V 10AH | 36V 15AH |
| Chemistry | | | | |
| Chemistry | NMC | | | |
| Cell Specification | 3.7V 2.5AH | 3.7V 2.2AH | 3.7V 2.5AH | 3.7V 2.5AH |
| Electrical Characteristics | | | | |
| Energy | 277.5Wh | 325.6Wh | 370Wh | 555Wh |
| Pack combination | 10S 3P | 10S 4P | 10S 4P | 10S 6P |
| Nominal Voltage | 37V | | | |
| Rated Capacity | 7.5AH | 8.8AH | 10AH | 15AH |
| Standard Charge Voltage | 42V | | | |
| Max Charging Voltage | 42V | | | |
| End Voltage | 30V | | | |
| Standard Charging Current* | 2A | 2A | 2A | 3A |
| Max. Charging Current* | 4A | 4A | 5A | 7A |
| Max. Discharge Current* | 7.5A | 8A | 10A | 15A |
| Operating Condition and Environment | | | | |
| Temperature °C | Charge: 0 to 50°C | | | |
| | Discharge: -20 to 55°C | | | |
| | Storage: -30~45°C (3month) | | | |
| Life Cycles (at 80% DOD) | 1500 | | | |
| Mechanical Characteristics | | | | |
| Weight | 2.2kg | 2.8Kg | 2.8Kg | 3.5Kg |
| Dimensions of Cabinet (LxWxH) | 230*85*85 | 345*85*85 | 345*85*85 | 436*85*85 |
| Type of Cabinet | Metal sheet | | | |
| Type of Connector | XT 60 /C14 | | | |
| Protection and Monitoring | | | | |
| BMS Protection | (Short Circuit Protection, Over voltage Protection, Under Voltage Protection, Over Discharge/ Charge Protection/ Temperature) | | | |
| Communication | CAN/Bluetooth (Optional) | | | |

Note: - *Mark value is the standard allowed value for cell chemistry



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**Technical Specification LFP**

| APPLICATION | | | | |
|--|---|-------------|-------------|-------------|
| Parameters | 25.6V 5H | 25.6V 12AH | 25.6V 15AH | 25.6V 20AH |
| Chemistry | | | | |
| Chemistry | LiFePO4 | | | |
| Cell Specification | 3.2V 5AH | 3.2V 6AH | 3.2V 5AH | 3.2V 5AH |
| Electrical Characteristics | | | | |
| Energy | 128Wh | 307Wh | 384Wh | 512Wh |
| Pack combination | 8S | 8S 2P | 8S 3P | 8S 4P |
| Nominal Voltage | 25.6V | 25.6V | 25.6V | 25.6V |
| Rated Capacity | 5AH | 12AH | 15AH | 20AH |
| Charging Voltage | 29.2V | 29.2V | 29.2V | 29.2V |
| End Voltage | 21.2V | 21.2V | 21.2V | 21.2V |
| Standard Charging Current* | 2.5A | 3A | 3A | 4A |
| Max. Continuous Charging Current* | 5A | 6A | 8A | 10A |
| Max. Continuous Discharge Current* | 5A to 8A | 12A | 15A | 20A |
| Operating Condition and Environment | | | | |
| Temperature °C | Charge 0°C - 50°C | | | |
| | Discharge 0°C - 50°C | | | |
| | Storage -20°C - 50°C | | | |
| Life Cycles (at 80% DOD) | >2500Cycles | | | |
| Mechanical Characteristics | | | | |
| Weight | 1.5Kg | 3kg | 4kg | 6kg |
| Dimensions of Cabinet (LxWxH) | 138*72*85 | 160*160*100 | 230*160*100 | 300*160*100 |
| Type of enclosure | Plastic Wrap | Sheet Metal | Sheet Metal | Sheet Metal |
| Type Of Connector | XT 60 /C14 | | | |
| Protection and Monitoring | | | | |
| BMS Protection | (Short Circuit Protection, Over voltage Protection, Under Voltage Protection, Over Discharge/ Charge Protection/ Temperature) | | | |
| Communication | CAN/Bluetooth (Optional) | | | |

Note- *Mark value is the standard allowed value for cell chemistry.



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