

## ELECTRICAL SPECIFICATIONS

|                      |                 |
|----------------------|-----------------|
| Nominal Voltage      | 51.2V           |
| Working Voltage      | 43.2V-58.4V     |
| Nominal Capacity     | 105Ah           |
| Enclosure Protection | IP67            |
| Storage Temperature  | 14°F-113°F      |
| Energy               | 5,376Wh         |
| Capacity @ 25A       | 252 min         |
| Self-Discharge       | 1%-3% Per Month |
| Cycle Life           | 4000 cycles     |
| Designed Lifespan    | 10 years        |

## DIMENSIONAL SPECIFICATIONS

### 51.2V 105Ah



\*Measured at the maximum outer points.

## MECHANICAL SPECIFICATIONS

|                         |                        |
|-------------------------|------------------------|
| Dimensions (LxWxH)      | 14.37"x13.43"x10.75"   |
| Weight                  | 103.2 lbs              |
| Case Material           | Steel                  |
| Terminal Type           | M8                     |
| Chemistry               | Lithium Iron Phosphate |
| Shipping Classification | UN 3480, Class 9       |
| Cells                   | 16                     |

## SAFETY & FEATURES

|                             |              |
|-----------------------------|--------------|
| Pack Under / Over Voltage   | Yes          |
| Short Circuit/Over Current  | Yes          |
| Under/Over Temperature      | Yes          |
| Bluetooth Monitoring        | Yes          |
| Sleep Mode                  | Yes          |
| Dashboard Switch            | Yes          |
| Series/Parallel Connectable | NO           |
| Cell Certification          | UL1642       |
| Battery Certifications      | UN38.3, MSDS |

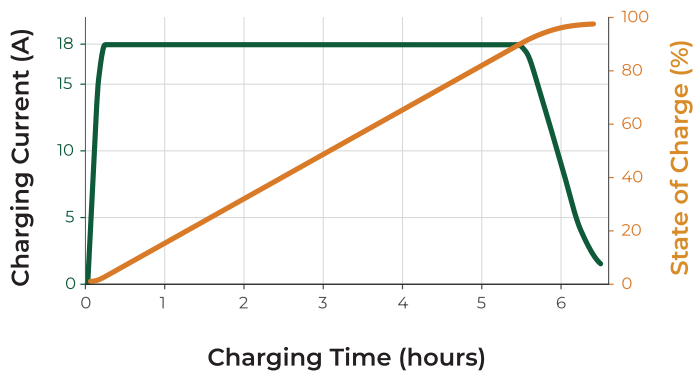
## CHARGE SPECIFICATIONS

|                            |             |
|----------------------------|-------------|
| Recommended Charge Current | <52A        |
| Recommended Charge Voltage | 41V-58.4V   |
| BMS Charge Voltage Cut-Off | 58.4V       |
| Charge Temperature         | 34°F-140°F  |
| Reconnect Voltage          | 55.2V       |
| Cell Balancing             | 54.4V-58.4V |
| Charge Time @ 18A          | ~5.8 hrs    |

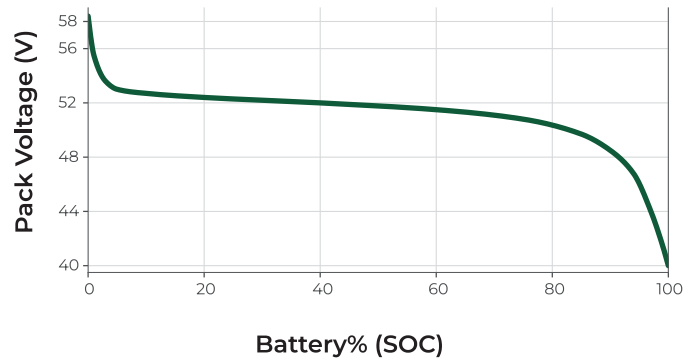
## DISCHARGE SPECIFICATIONS

|                                  |           |
|----------------------------------|-----------|
| Max Continuous Discharge Current | 210A      |
| Max Discharge (180S)             | 300A      |
| Max Discharge (30S)              | 400A      |
| Max Discharge (3S)               | 600A      |
| BMS Discharge Voltage Cut-Off    | 40V       |
| Discharge Temperature            | 5°F-149°F |
| Recovery Voltage                 | 43.2V     |

HIO Lithium Charging Curve



HIO Lithium Voltage Curve



# HIO BATTERY

320 London Rd, Delaware,  
OH 43015  
+1 (626) 412-7068