

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)	21.65"x9.72"x10.82"
Weight	99.21 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

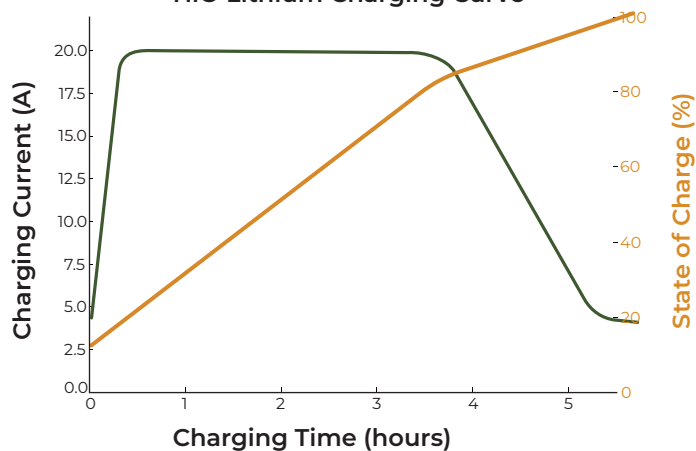
CHARGE SPECIFICATIONS

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	~5.5 hrs

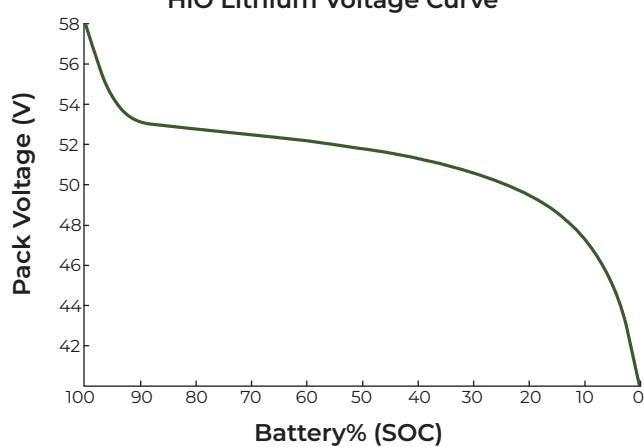
DISCHARGE SPECIFICATIONS

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

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