

DEEP CYCLE | LITHIUM IRON PHOSPHATE BATTERY LiFePO4

V51-105C

51.2V / 105 Ah / 5376 Wh

ELECTRICAL SPECIFICATIONS

Nominal Voltage:	51.2 VDC
Nominal Capacity (20-Hour):	105 Ah
Resistance:	<30 mΩ @ 50% SOC
Efficiency:	99%
Self Discharge:	<3% per Month

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current:	250A
Peak Discharge Current:	550A (30 Seconds)
BMS Discharge Current Cut-Off:	580A ± 5A (3 ± 0.5 Seconds)
Recommended Low Voltage Disconnect:	46.4 VDC
BMS Discharge Voltage Cut-Off:	Single Cell: 2.5 ± 0.025V
Reconnect Voltage:	Single Cell: 2.9 ± 0.025V
Short Circuit Protection:	1500 ± 10A (400uS)

OPERATING TEMPERATURE SPECIFICATIONS

Discharge Temperature:	-4°F to 140°F (-20°C to 60°C)
Charging Temperature:	14°F to 113°F (-10°C to 45°C)
Storage Temperature:	14°F to 104°F (-10°C to 40°C)
BMS High Temperature Protection:	Battery: 140°F (60°C)
	BMS: 194°F (90°C)
Reconnect Temperature:	Battery: 131°F (55°C)
	BMS: 158°F (70°C)

CHARGE SPECIFICATIONS

Standard Charge Current:	21A (Mandatory 14°F to 32°F -10°C to 0°C)
Maximum Charge Current:	52.5A
Charge Current:	≤0.2C / 14°F to 32°F (-10°C to 0°C)
Recommended Charge Voltage:	58.4V ± 0.4V
BMS Charging Voltage Cut-Off:	Single Cell: 3.65 ± 0.05V
Reconnect Voltage:	Single Cell: 3.35 ± 0.025V
Balancing Voltage:	Single Cell: 3.40 ± 0.025V

COMPLIANCE CERTIFICATIONS

Certifications:	UN38.3, CE, UKCA, RoHS
	ABYC E-13 Standard
Shipping Classification:	UN 3480, Class 9

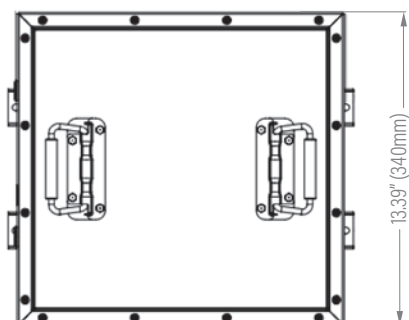
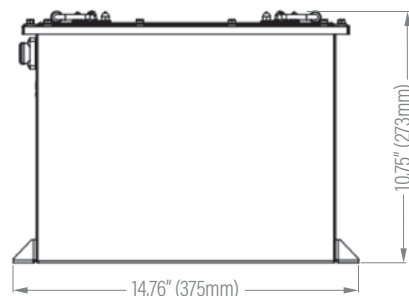
COMMUNICATION

Bluetooth:	Yes
Mobile App:	Yes
Software Updates:	Over-the-Air



MECHANICAL SPECIFICATIONS

BCI Group Size:	Unitized – Application Specific
Dimensions (L x W x H):	14.76" x 13.39" x 10.75"
	375mm x 340mm x 273mm
Battery Weight:	99.2 Lbs (45.0 Kgs)
Container Material:	PHS Steel with Powder Coating
Ingress Protection Rating:	IP67
Chemistry & Cell Design:	LiFePO4 with ArticEdge™ Pouch Cell Construction
Terminal Type:	M8 Inserted Terminal with Nut & Bolt Assembly
Terminal Torque:	Application Control Panel Mount with Cabling



The data shown are nominal and should not be construed as maximum or minimum values for specification or final design. Data for this product type may vary from that shown herein.