



## LITHIUM GOLF CART BATTERIES

### EXCALIBUR 48V 105Ah Lithium (LiFePO4) Golf Cart Battery Data Sheet

#### General

Nominal Voltage	51.2V
Working Voltage	43.2V – 58.4V
Recommended Voltage	45.0V – 57.0V
Nominal Capacity	105 Ah
Energy	5376Wh
Reserve @ 25A	252 Minutes
Self Discharge	1% Per Day



#### Discharging

Max. Continuous Discharge	200A
Max. Discharge 3 Seconds	400A
Max. Discharge 30 Seconds	315A
Recommended Voltage Cutoff	43.2V
BMS Voltage Cutoff	43.2V
BMS Voltage Recovery	44.0V
Discharge Temp. Range	-20°C - 65°C

#### Charging

Recommended Charging Current	< 50A
Max. Charging Current	105A
Bulk/Absorb Voltage	57.0V
Float Voltage	No
Equalization	Passive
BMS High Voltage Cutoff	60.0V
Charging Temp. Range	-10°C - 55°C

#### Physical

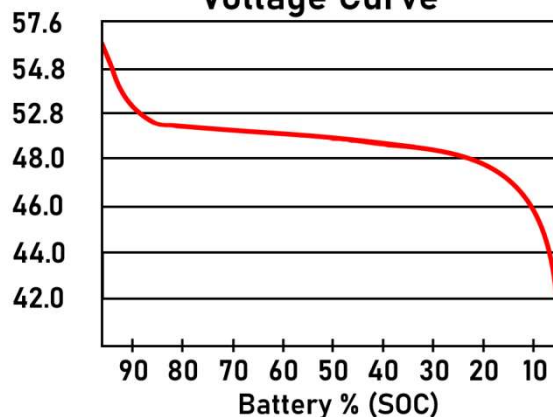
Cell Chemistry	Lithium Ion Phosphate
Cell Type	Rectangular
Cell Configuration	1P16S
Series Connectable	No
Parallel Connectable	No
Weight	106 Lbs. (48 Kg)
Dimensions L x W x H (mm)	489.2x329.3x244.56
Terminal Type	M8 Female
Shell Type	Aluminum
UN Shipping Class	UN 3481

#### Safety

Charging Freeze Protection	Yes, 1.1°C or Less
Pack Over-Voltage	Yes
Cell Over-Voltage	Yes
Pack Under-Voltage	Yes
Cell Under-Voltage	Yes
Cell Over-Temp.	Yes
BMS Over-Temp.	Yes
Short Circuit / Over Current	Yes
Certifications	UN 38.3, UL 1642
IP Rating	IP67

**NOTE:** If over current or short circuit protection is triggered, battery terminals may need to be temporarily disconnected to reset BMS. BMS will protect battery and equipment from catastrophic failure, but if the short circuit is severe, the BMS may be permanently damaged.

#### Voltage Curve





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### Battery Size Display

