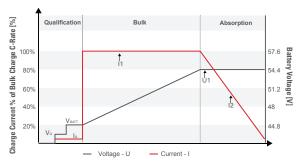


## LiFePO<sub>4</sub> BATTERY

# S48-6650LFP

Rolls LFP batteries allow for equipment design and functionality improvements and deliver productivity gains through enhanced cycling, charge time and weight reductions in stationary and mobile applications. Dramatic improvements in cycle life and charge efficiency combined with zero maintenance requirements provide the end-user with significant cost of ownership savings.



Nominal Voltage	48 V		
Qualification Voltage (VQ*)	Min 12 V / Max 48 V (I <sub>Q</sub> < 1 A)		
Battery Voltage (VBATT)	≥ 40 V		
Bulk Current (I1)	65 A recommended 130 A maximum		
Absorption Voltage (U1)	54.4 V		
Termination Charge Current	12 ≤ 2 A		
*Qualification is optional to utilize Auto-On feature			

#### **Efficient and Stable Discharge**

Deliver > 95% of their capacity at high and stable voltages, increasing equipment performance and reducing motor fatigue.

Partial State of Charge (SOC) Rolls LFP batteries will not suffer negative effects from partial SOC.

#### **Battery Management System**

Integrated Battery Management System to prevent abuse outside of current, voltage and temperature limits.

#### Renewable System Ready

Xanbus comm port provides plug and play integration with SE Conext XW+, SW, SCP, ComBox and Solar Charge Controllers

#### **Specifications**

Length (A)	471.5 mm	18.5 in
Width (B)	347.5 mm	13.7 in
Height (C)	375 mm	14.7 in
Weight	87 kg	192 lb
Terminal	M8	
Terminal Torque	9 Nm +/- 3	6.64 ft-lb
Case Material	Steel	
IP Rating	IP 55	

#### Charge & Electrical Specifications

51.2 V	
54.4 V	
58.4 V	
44.8 V	
7395 Wh	
90%	
6656 Wh	
(1C) 130 Ah	
130 Adc	

Peak Current 300 Adc (3 seconds)

Electrical Specifications at 25°C.

\* Do not exceed maximum voltage at the battery terminals

Constant Power - Minutes of Discharge					
500 W	1000 W	2000 W	2500 W		
799	399	200	133		
Constant Current - Minutes of Discharge					
@10A	@25A	@50A	@100A		
780	312	156	78		

Cell Chemistry	LiFePO <sub>4</sub>	
Cell Modules	16S 26P	
Charge Temperature	0°C / 45°C	32°F / 113°F
Discharge Temperature	-20°C / 50°C	-4°F / 122°F
Storage Temperature	-20°C / 45°C	-4°F / 113°F
Self-Discharge 25°C (77°F)	< 3% per month (battery off)	

CAUTION: Extra considerations must be given to depths of discharge, operating voltages and currents when designing systems for use at maximum operating temperatures.





Do not mix with lead-acid batteries when recycling.

**FUNCTIONAL** 

**SAFETY** 

# FUNCTIONAL SAFETY



CULUSTED

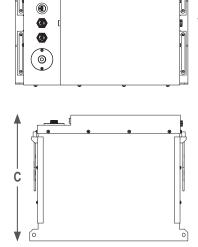
LITHIUM-ION LEV BATTERY



#### CAUTION:

<u></u>

### DIMENSIONS



A

#### NOTE:

Qualification is a hand shaking procedure that allows a charger to wake up an Auto-On equipped Rolls LFP battery. Qualification is an optional feature and is not required for standard charging.

# CAUTION:

Extra considerations must be given to depths of discharge, operating voltages and currents when designing systems for use at maximum operating temperatures.

# 

В

# SAFETY & PERFORMANCE CERTIFIED

SECTION<sub>A-A</sub>

Terminal units in mm

- IEC 62133
- UL 2271UL 1973
- UN 38.3

#### SHIPPING CLASSIFICATION

• UN 3480, Class 9 (Lithium ion batteries)