



# Telecel<sup>®</sup> Plus BSE24-8B100

High-density, environmentally-hardened, long-life battery for back-up and renewable energy

Product  
Due  
2016

## Overview

Telecel<sup>®</sup> utilizes lithium iron phosphate (LiFePO<sub>4</sub>) battery technology and represents a leap forward in price, safety and reliability. Compared to lead-acid batteries, the cost of Telecel batteries is at least 20% lower over the first five years of life and offers even greater savings over the total projected life of the battery of 10 to 15 years\*. In addition, the initial cost is at least 20% less than competing lithium batteries.

## Applications

Ideal for battery backup, renewable energy and generator systems, both on-grid and off-grid, Telecel offers safe, compact, high-density energy storage for wireless sites and other infrastructure.

## Replace Lead-Acid Batteries

Replacing existing lead-acid batteries with Telecel is simple. The 24-volt units have a similar footprint to standard 12-volt lead-acid batteries, mount on existing battery trays and are fitted with Anderson PowerPole housings for quick, easy installation\*\*.

## Reduce Energy Costs

With its 3000+ cycles, Telecel can power a site during daily peak electric rates, and recharge during off-peak, reducing the utility bill by up to 30%\*. This cycling capability also supports future installation of renewable energy generation, reducing utility bills by an additional 25%\*.

## Wide Operating Temperatures

Providing full rated capacity over a wide temperature range and all the way up to maximum charge/discharge current, Telecel has up to 37% longer run-time than lead-acid, for the same rated capacity.

## Features

- ❖ Battery cells are UL 1642 certified
- ❖ Series/parallel configurations for 24 and 48 V systems
- ❖ Safe, high-density energy storage and backup
- ❖ Lightweight at one-third the weight of lead-acid
- ❖ Compact at half the volume of lead-acid
- ❖ On-grid and off-grid applications
- ❖ Wide operating temperature range
- ❖ Long life - up to 10 times the life of lead-acid in unconditioned enclosures

\*Based on typical network deployment. Actual cost benefit varies with application.  
\*\*Some applications may require the addition of a 1RU Battery Multiplexer™ unit.

## Electrical Performance and Connections

Nominal Capacity	104 Ah (2860 Wh)	
Internal Resistance	<1.0 milliohms	
Power Connection	SBS75X Anderson PowerPole	
Voltage	Charge	28.8
	Open Circuit	27.2
Charge	Standard	0.8C (80 A)
	Self Discharge	<3% per month
Discharge	Standard	0.8C (80 A)
	Self Discharge	<3% per month

## Size and Weight

Height	11.1 inches (282 mm)
Width	5.7 inches (144 mm)
Depth (Length)	21.0 inches (534 mm)
Weight (as shipped)	63.1 pounds (28.6 kg)

## Constant Power Output to 21 V (watts at 25°C)

Hours of runtime:	4	632
	6	422
	8	316
	10	252
	12	210
	24	105

## Temperature Derating

-20°C (-4°F)	21%
+55°C (+131°F)	1%

## Temperature

Charge	0° to +55°C (32° to +131°F)
Discharge	-20° to +55°C (-4° to +131°F)
Maximum Recommended	+75°C (167°F)
Long-Term Shell Resistance	+130°C (266°F)
Transient Shell Resistance	+170°C (338°F)

## Cycle and Standby Life

Depth of Discharge	Cycles	Estimated Years <sup>3</sup>
80%	2000	5
70%	3000	8
25%	8000	20
Float/Standby	N/A	10 to 15

<sup>3</sup> Based on one cycle per day.

Specifications are subject to change without notice



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