

## KiloVault® PLC 2100

Pure Lead Carbon Battery For  
Cycling Applications



NEW FOR  
2020

### Advanced Technology, Exceptional Value, Deep Cycle Solar Batteries

KiloVault® PLC 2100 is a cost-effective, maintenance-free battery that offers superior performance in Partial State Of Charge (PSoC) applications, combining pure lead and advanced carbon technology for extended battery life and rapid charging.



#### Maintenance Free

Worry-free operation at remote off-grid locations. No water to check means convenience and peace of mind. These batteries don't need to be babysat. 2 year shelf life with a low self-discharge rate.



#### Exceptional PSoC Performance

Off-grid and backup applications aren't always able to fully recharge batteries, leaving them in a partial state of charge. The PLC 2100 is designed specifically for PSoC operations.



#### Advanced Pure Lead Carbon Technology

PLC high power, energy dense batteries have a specially formulated carbon additive that enhances the overall battery life. These are not your normal lead acid batteries.



#### Cycling/Backup/ Self Consumption

Ideal in cycling and backup power applications. Self-consumption applications allow energy stored to be used when solar production is less than the loads, or during peak times.



#### Super-Fast Charging

Don't waste precious time. High charge rates allow the 2100 PLC to go from 50% up to 90% state of charge in under an hour!



#### Maximized Cycle Life

Affordable high performance with 3000 Cycles @ 50% depth of discharge. Pay less up front and get lower overall cost per kWh cycle over the life of the battery.

## Electrical Specifications

ITEM	SPECS
Model	2100 PLC
Rated Voltage	12V
Nominal Amp-Hour Capacity (C20 Hr Discharge)*	180Ah
Rated Capacity	2160Wh
Float Charging Voltage	13.7V
Bulk/Absorption Voltage	14.1V – 14.4V
Max Discharge Current	500A (5s)
Max Charge Current	140A (100A recommended)
Max Configuration	Up to 4 batteries in parallel
Self Discharge	Batteries can be stored up to 24 months at 25°C (77°F). For higher temps, the time interval will be shorter. Battery should be given a top off charge when the open circuit voltage approaches 12.6V, or when the max storage time is reached, whichever occurs first.
Cycle Count	3000 Cycles @ 50% Depth of Discharge
Warranty	5 Year Limited Warranty

Discharge in Hours	1	3	8	10	20	100
*Rated Ah Capacity (25° C)	121	144	167	170	180	200

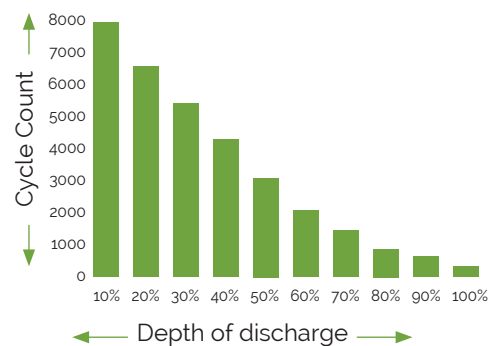
## Environmental Specifications

ITEM	SPECS
Nominal Operating Temperature Range	77° +/- 5°F (25° +/- 3°C)
Operating Temperature Range (Internal to Battery)	Discharge -40°F - 131°F (-40°C - 55°C) Charge -4°F - 113°F (-20°C - 45°C) Storage -4°F - 122°F (-20°C - 50°C)
Terminal	Top Terminal M8 Insert, Front Terminal M6 Adapter
Terminal Hardware Torque	71 in-lbs (8Nm) +/- 5%
Battery Interconnects/Terminal Covers	Included

## Physical Specifications

ITEM	SPECS
Weight	127 lb (57.6 kg)
Height	12.6 in (320 mm)
Width	4.92 in (125 mm)
Depth	22 in (559 mm)

## Cycle Life



## Capacity vs. Temperature (Discharge)

