

KiloVault® PLC 2100

Pure Lead Carbon Battery For
Cycling Applications



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 PLC 2100 to reach 90% state of charge in less than 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	50A
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

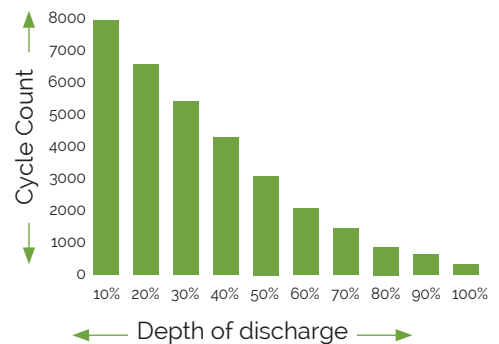
Environmental Specifications

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)

