

## DATASHEET

# Power Pack Series 3

Model - 12.8V 18Ah

Lithium Ferro Phosphate Battery

## Overview

CWD **Power Pack Series 3** is a 18Ah battery that incorporates Lithium Ferro Phosphate technology and is proudly manufactured in the Republic of South Africa. This 18Ah battery is equivalent and a direct replacement to a 36Ah lead-acid battery.

**Power Pack Series 3** is capable of charging and discharging at high speeds compared to other types of batteries.

**Power Pack Series 3** is rechargeable and has several distinctive features, including:

- Better power density
- Low discharge rate
- Flat discharge curve
- Less heating
- Higher number of charge cycles
- Increased safety

**Power Pack Series 3** does not heat up easily and are relatively cooler than other batteries. The chemistry of the battery saves it from thermal runaway, and hence it is considered to be safe for home use.

**Power Pack Series 3** batteries are also used as replacements for costly lead-acid batteries. They are well suited for applications that require high-load currents and endurance.

**Power Pack Series 3** are easy to store and carry due to their light weight and ability to provide huge amounts of energy.

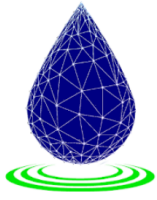
**Power Pack Series 3** has a Battery Management System (BMS) to protect and prolong the battery.

### Benefits

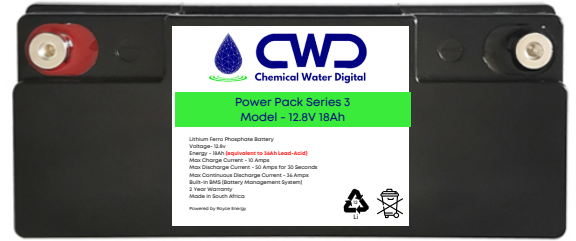
- 100% Capacity Available
- Minimum 2000 Cycles
- 100% Recyclable
- 2 Year Warranty

Description	Specification
Capacity in Ah	18Ah
Nominal Voltage	12.8v
Maximum Continuous Discharge Current	36 Amps
Peak Discharge Current (30 sec)	50 Amps
Maximum Continuous Charge Current	10 Amps
Short circuit protection	Yes
Over Voltage Protection	Yes
Under Voltage Protection	Yes
Over Current protection	Yes
Charge Temperature	0°C – 45°C
Discharge Temperature	-20°C – 45°C
Weight	2.4kg
Number of Cycles (minimum)	2000
Expected Life	5 Years Minimum
Warranty	2 Years
Dimensions (mm)	L
	W
	H
	181
	76
	167

**Power Pack Series 3 NOT affected by Load-Shedding.**



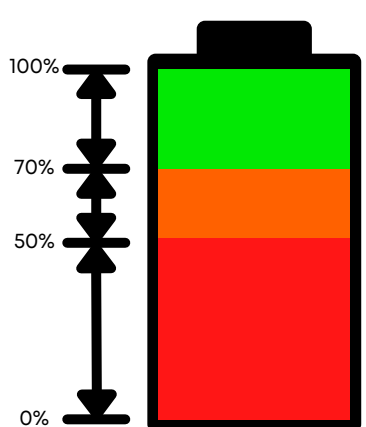
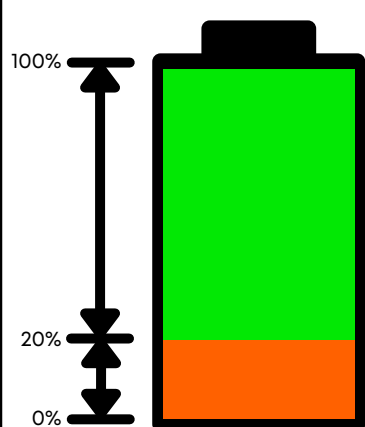
**CWD**  
Chemical Water Digital



## Power Pack Series

## Lead Acid vs Lithium Ferro Phosphate Comparison Sheet

### Lead Acid vs Lithium Ferro Phosphate

Lead Acid	Lithium Ferro Phosphate
	
<ol style="list-style-type: none"><li>1. 50% capacity available</li><li>2. 200 cycles</li><li>3. Damaged with load shedding</li><li>4. Contains Liquid</li><li>5. Warranty is not common</li></ol>	<ol style="list-style-type: none"><li>1. 100% capacity available</li><li>2. 2000 cycles</li><li>3. Not affected by load shedding</li><li>4. Does not contain liquid.</li><li>5. 2 year warranty</li></ol>