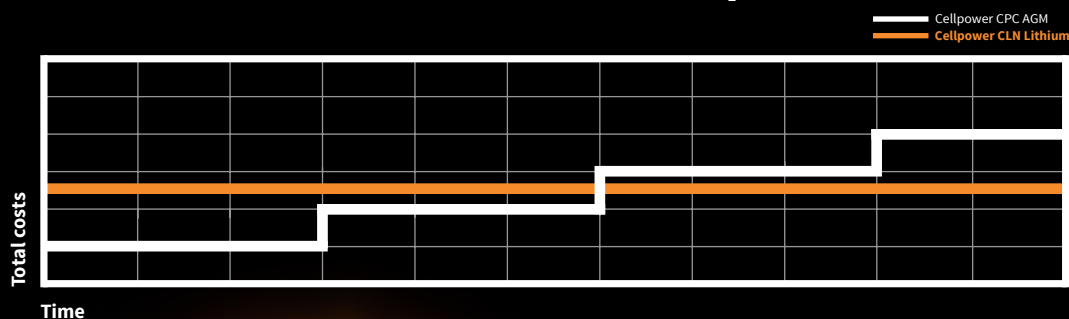
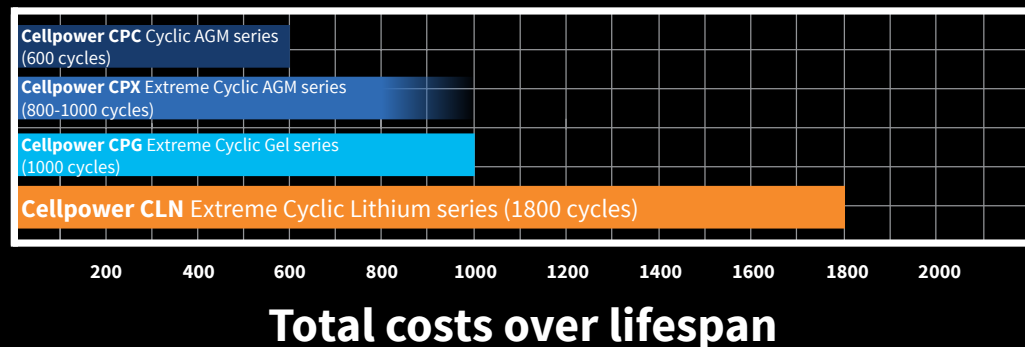
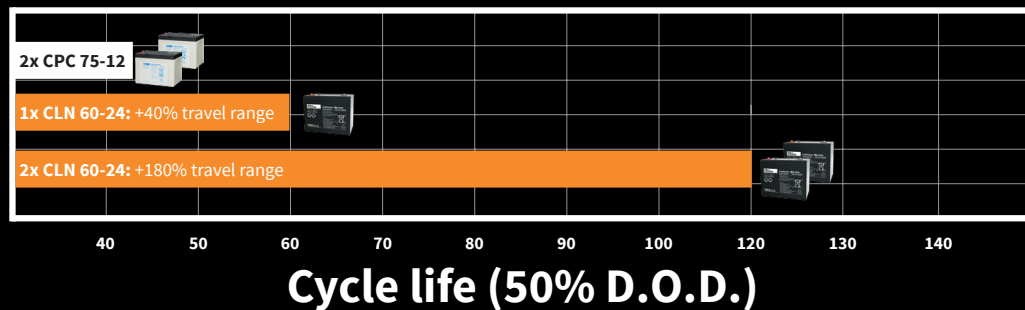


Comparison between AGM and Lithium

Travel range with mobility scooter



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Cellpower CLN Quality & Durability



Cellpower Quality assurance

Cellpower CLN = Durable quality

Cellpower understands that the quality of our products is crucial to the reliable operation of your application. Therefore Cellpower checks that all our products comply with high quality requirements. If they do not, they will not be delivered. All manufacturers are at least ISO 14001 and ISO 9001 certified and waste and residual materials are disposed of properly.



The 6 durable qualities of Cellpower CLN batteries

1: Robustly built cells

The individual cells of CLN batteries are manufactured using high quality materials and with larger than usual safety margins. This ensures a safe operation, even under more demanding circumstances.

2: Pack isolated with resin board

To prevent internal short-circuit, the pack is isolated with a resin board. This prevents internal damage, even when the battery is being heavily mistreated.

3: Active BMS protection

The built-in BMS (Battery Management System) actively monitors the battery parameters and performance. It automatically keeps the battery in the best condition possible and can shut the battery down when it's being maltreated.

4: Passive fuse protection

Besides the active BMS protection, CLN batteries are also passively protected by fuse. Both as an extra safety measure and to prevent damage to the BMS.

5: Anti Corrosion Coated Steel (ACCS) housing

Cellpower CLN batteries are built to last, both in terms of performance and construction quality. That is why the CLN housing is made out of durable but lightweight steel. CLN batteries can take a beating.

6: UN38.3 and IEC62133:2017 Certified

To underline the durable and safe qualities of the Cellpower CLN battery range, all CLN batteries are UN38.3 and IEC62133:2017 tested and certified by Dekra. CLN batteries do not only promise, but actually deliver durable quality.



Dekra certified

UN38.3 Test procedures

Test	Description	Unit tested		Passed?
		Individual cell	Battery	
Altitude simulation	Simulation of unpressurized aircraft	✓	✓	✓
Thermal shock	Resistance to temperatures ranging from -40°C to 75°C	✓	✓	✓
Vibration	Simulation of vibrations during transport	✓	✓	✓
Shock	Simulation of impacts and drops during transportation	✓	✓	✓
External short circuit	Simulation of an external short to the terminals of the battery	✓	✓	✓
Impact	Mass of 9.1kg dropped on the cell from height of 61cm	✓	N/A*	✓
Overcharge	Battery charged with double the recommended charge voltage and current	✓	✓	✓
Forced discharge	Simulation of misconnected charger and cells installed in reverse	✓	N/A*	✓
Final result				✓

*: Not applicable for this test criterium

IEC62133:2017 Test procedures

Test	Unit tested		Times tested	Passed?
	Individual cell	Battery		
Continuous charge	✓	N/A*	5	✓
Case stress	N/A*	✓	3	✓
External short circuit	✓	✓	5	✓
Free fall	✓	✓	3	✓
Thermal abuse	✓	N/A*	5	✓
Crush	✓	N/A*	5	✓
Overcharge	N/A*	✓	5	✓
Forced discharge	✓	N/A*	5	✓
Mechanical vibration	N/A*	✓	3	✓
Mechanical shock	N/A*	✓	3	✓
Forced internal short	✓	N/A*	5	✓
Internal AC resistance	✓	N/A*	3	✓
Final result				✓

*: Not applicable for this test criterium