STARTHEALTH™

DyoCense
Extend Battery Life

Starter Battery Health Monitoring System
Predictive Battery Health for Class-8 Truck Fleets

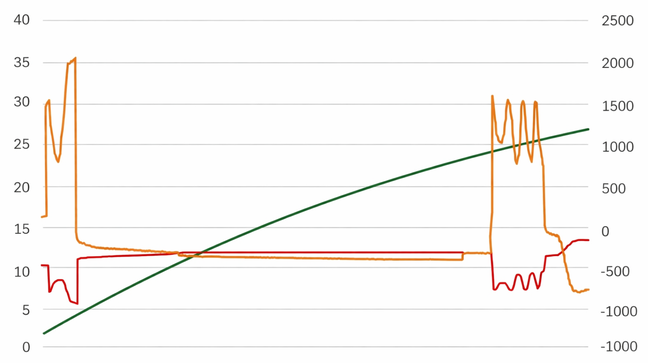
Identify Bad Batteries Before They Fail • Prevent Roadside Failures • Extend Battery Life

Starter Battery Health Matters:

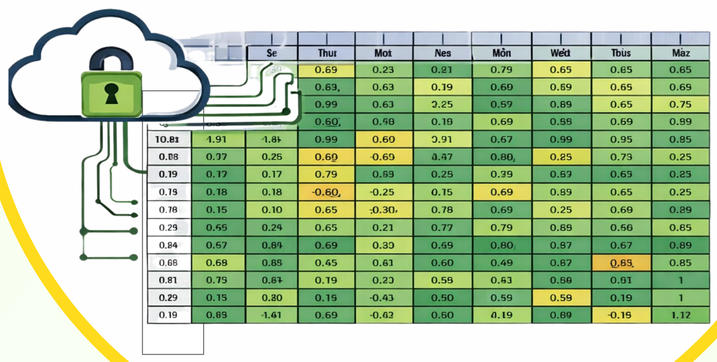
Every maintenance manager knows starter batteries will fail; the only mystery is when...

StartHealth™ continuously monitors starter battery behavior and identifies early warning signs BEFORE roadside failures occur.

StartHealth™ Data



Heatmap Monitoring Chart



	Se	Thur	Mot	Nes	Mon	Wed	Thus	Maz
		0.69	0.23	0.21	0.79	0.65	0.65	0.65
		0.69	0.63	0.19	0.69	0.69	0.65	0.69
		0.99	0.63	0.25	0.59	0.89	0.65	0.75
		0.60	0.58	0.19	0.69	0.59	0.69	0.99
10.81	1.91	1.84	0.99	0.60	0.91	0.67	0.99	0.95	0.85
0.08	0.07	0.25	0.60	-0.60	0.47	0.80	0.25	0.79	0.25
0.19	0.17	0.17	0.79	0.69	0.29	0.39	0.69	0.65	0.25
0.19	0.18	0.18	-0.60	-0.25	0.15	0.69	0.89	0.65	0.25
0.78	0.15	0.10	0.65	-0.30	0.78	0.69	0.25	0.69	0.29
0.29	0.65	0.24	0.65	0.21	0.77	0.79	0.89	0.56	0.65
0.84	0.67	0.84	0.69	0.30	0.69	0.80	0.87	0.67	0.89
0.68	0.68	0.88	0.45	0.61	0.60	0.49	0.87	0.89	0.85
0.81	0.79	0.84	0.19	0.20	0.58	0.63	0.89	0.61	1
0.29	0.15	0.80	0.15	-0.43	0.50	0.59	0.59	0.19	1
0.19	0.89	1.41	0.69	-0.62	0.60	0.19	0.89	-0.15	1.12

Cloud Trend Monitoring

- Records truck operational parameters
- Stores history in cloud
- Real time AI-powered battery health
- Fleet dashboard visibility
- Maintenance alerts before failure

PREVENT ROADSIDE FAILURES. EXTEND BATTERY LIFE. REDUCE DOWNTIME.

Are starter battery problems plaguing your fleet?

Starter batteries don’t last forever — but with the right information, you can avoid costly surprises.

StartHealth™ gives your team clear, real-time battery health data so you can spot weak batteries early.
That means you can service or replace them before a driver calls about a truck that won’t start.

PLAN AHEAD. AVOID BREAKDOWNS.

Batteries naturally lose performance over time. The big question is:
Should you wait for failure, or replace them too soon?

StartHealth™ tracks battery health over time and sends alerts when health is low. This allows you to:
- **Plan replacements in advance**
- **Control maintenance budgets**
- **Avoid emergency jumpstarts and road service calls**

A SMARTER ALTERNATIVE TO MANUAL TESTING

Traditional battery testers require disconnecting and testing each battery individually — a time-consuming process that:
- **Wastes technician hours**
- **Often checks batteries that are perfectly fine**
- **Creates opportunities for connection errors when the vehicle is returned to service**

Waiting until a driver reports a problem? By then, it may already be too late.

StartHealth™ continuously monitors battery condition to keep your maintenance team informed without all the time and labor of over-maintaining batteries.

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MORE THAN BASIC MONITORING

Some OEM systems offer battery monitoring coupled to the engine auto-start to help extend battery life. These systems are great, but they don't warn when battery failure is near.

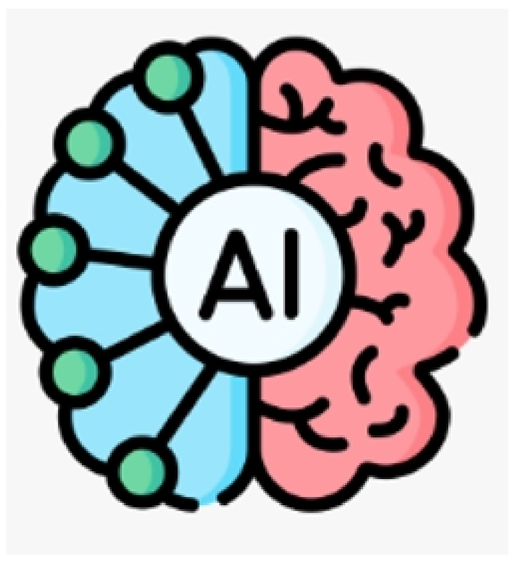
StartHealth™ helps you identify:
- **Batteries that were weak from the start**
- **Batteries draining due to electronics or driver behavior**
- **Chronic low charge conditions**
- **Poor electrical connections affecting charging or starting**

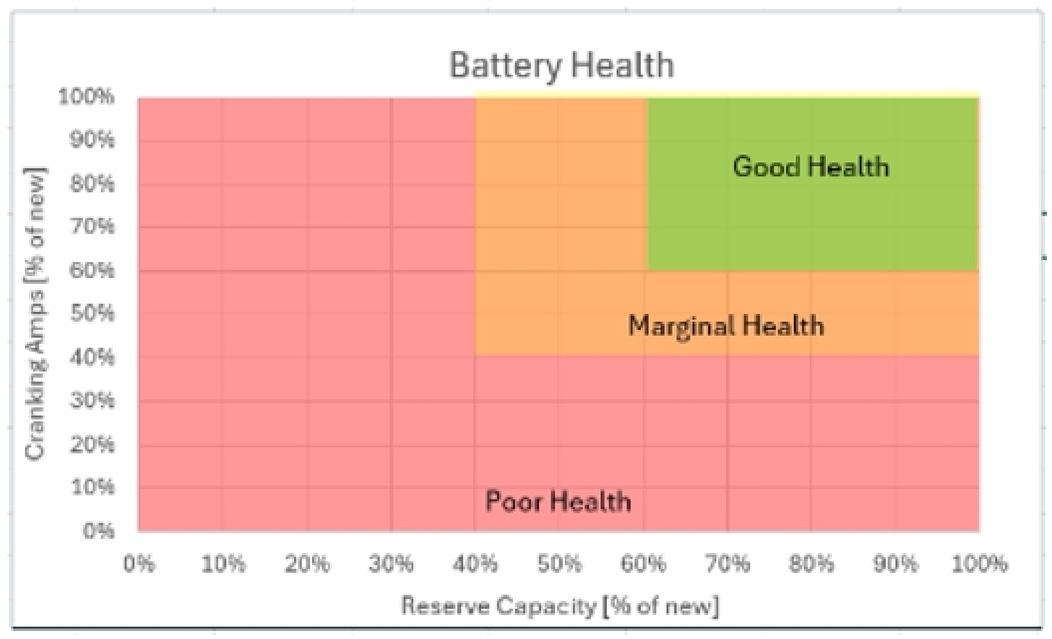
If a battery fails prematurely, StartHealth™ provides a clear battery health history record to support warranty or recovery claims.

THE RESULT?

- **Fewer stranded drivers**
- **Fewer emergency service calls**
- **Better maintenance planning**
- **Longer battery life**
- **Lower operating costs**







Collect real time truck data and send to the cloud

Extract key data features and determine battery SoH

Truck ID	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2210	0.89	0.72	0.76	0.72	0.71	1.00	0.78	0.71	0.74	0.82	0.82	0.68
2212	0.89	0.83	0.84	0.96	0.80	0.72	0.99	0.93	0.90	0.96	0.80	0.87
2213	0.77	0.98	0.81	0.92	0.86	0.87	0.81	0.84	0.84	0.99	0.84	0.82
2214	0.80	0.91	0.76	0.89	0.70	0.94	0.92	0.93	0.68	0.85	0.90	0.94
2215	0.98	0.77	0.86	0.70	1.00	0.90	0.87	0.76	0.69	0.70	0.79	0.96
2216	0.84	0.87	0.72	0.78	0.82	0.89	0.84	0.89	0.92	0.71	0.99	0.73
2217	0.93	0.74	0.72	0.70	0.72	0.76	0.68	0.86	0.75	0.86	0.88	0.91
2221	0.91	0.78	0.78	0.78	0.75	0.72	0.82	0.91	0.74	0.72	0.81	0.82
2222	0.88	0.82	0.74	0.98	0.79	0.82	0.71	0.86	0.82	0.71	0.79	0.94
2223	0.95	0.82	0.82	0.76	0.96	0.83	0.71	0.98	0.76	0.77	0.85	0.95
2226	1.00	0.74	0.89	0.88	0.85	0.79	0.83	0.81	0.96	0.79	0.95	0.76
2227	0.99	1.00	0.97	0.90	0.89	0.93	0.93	0.69	0.79	0.80	0.78	0.93
2228	0.94	0.90	0.90	0.74	0.70	0.98	0.88	0.81	0.85	0.87	0.82	0.91
2231	0.76	0.97	0.99	0.87	0.80	0.80	0.73	0.93	0.88	0.71	0.72	0.77
2232	0.95	0.74	0.99	0.86	0.96	0.94	0.70	0.68	0.82	0.96	0.86	0.79
2233	0.85	0.87	0.77	0.79	0.92	0.98	0.88	0.73	0.94	0.75	0.94	0.95
2234	0.92	0.85	0.78	0.80	0.69	0.71	0.85	0.75	0.70	0.93	0.76	0.79
2235	0.72	0.75	0.76	0.78	0.83	0.82	0.84	0.82	0.79	0.75	0.70	0.55
2239	0.91	0.72	0.85	0.75	0.92	0.94	0.77	0.87	0.70	0.85	0.86	0.94
2240	0.83	0.72	0.77	0.82	0.93	0.85	0.99	0.76	0.74	0.84	0.70	0.82
2241	0.89	0.85	0.88	0.94	0.85	0.72	0.75	0.96	0.95	0.84	0.96	0.97
2242	0.93	0.84	0.89	0.84	0.78	0.84	0.82	0.76	0.84	0.83	0.77	0.89
2243	0.94	0.73	0.72	0.96	0.98	0.88	0.75	0.77	0.82	0.75	0.72	0.71
2244	0.77	0.83	0.91	0.91	0.95	0.94	0.96	0.81	0.71	0.84	0.79	0.68
2245	0.88	0.76	0.99	0.86	0.80	0.74	0.85	0.90	0.97	0.86	0.75	0.74

2235	0.55
2210	0.68
2244	0.68
2243	0.71
2216	0.73
2245	0.74
2226	0.76
2231	0.77
2234	0.79
2232	0.79
2240	0.82
2213	0.82
2221	0.82
2212	0.87
2242	0.89
2217	0.91
2228	0.91
2227	0.93
2239	0.94
2214	0.94
2222	0.94
2223	0.95
2233	0.95
2215	0.96
2241	0.97



Store and retain historical data for each instance

Prioritize needs

Alert appropriate person

StartHealth™ helps you take control of your fleet's battery health — before small problems become big ones.