



Provider Application
Battery Health Check CARA Approved®

Created by
CARA Europe Battery Health Workgroup

Version 1.4
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Table of Contents

1	Introduction	2
2	Provider information	3
2.1	Company details.....	3
2.2	Details of the official representative.....	3
2.3	Details of the technical contact.....	3
2.4	Other details	3
3	Universal Requirements.....	5
4	Technical Requirements	9
5	Requirements to cover the market.....	11
5.1	Example of minimum coverage from 1st HJ 2022	11

1 Introduction

With this Provider Application, the provider aims to obtain certification for the Battery Health Check CARA Approved.

Please note, that only one test certificate can be accredited with one application. To apply for different certification levels, or different test types, the provider needs to submit separate applications. The application must be in writing (email is acceptable), written in English language.

This Provider Application describes how the battery testing services will function and it indicates where the services deviate from the Requirements of the Battery Health Check CARA Approved.

This Provider Application forms the basis for the test performed by the Testing Company to validate whether the Provider's battery tests comply with the Requirements. It is to be completed by the Provider.

The Testing Company will validate the feasibility of the testing method, the technical foundation, and the fulfilment of the requirements before entering physical testing.

CARA Board

Contact: corina@cara-europe.org

2 Application Status

Please indicate whether this document is submitted as:

☐ **Initial Application**

First-time application for the Battery Health Check CARA Approved® certification.

☐ **Certification Renewal**

Renewal of an existing Battery Health Check CARA Approved® certification.

3 Provider information

3.1 Company details

(i) Registered Name	
(ii) Registered Address	
(iii) Postal address (if differs from registered address)	
(iv) VAT number	

3.2 Details of the official representative

(i) Full Name	
(ii) Position	
(iii) Phone number	
(iv) E-mail Address	

3.3 Details of the technical contact

(i) Full Name	
(ii) Position	
(iii) Phone number	
(iv) E-mail Address	

3.4 Other details

(i) Name of the Test (intended trade name used by the applicant)	
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(ii) Desired timeframe for certification testing	
(iii) Optional: references	

4 Universal Requirements

The provider must propose a solution in line with the current remarketing return process. Please state compliance or deviations in the right column.

(i) The maximum duration of a test end-to-end is 30 minutes a. Without major disassembly (except removeable covers such as over OBD, charging outlet covers) b. With minimal intervention of the inspector during this period – Plug-in and plug-out activity (OBD and / or charging connector) – Time to start and stop test < 2 min* c. Must not involve test driving except minimal* distances within compound d. Require minimal* hardware and no significant fixed installations e. Result must be available within short timeframe; the goal is 30 min after test end <i>(*) high requirements for time, driving and hardware won't exclude applicants, but are likely to make solution not viable.</i>	
(ii) Possible to test batteries at charging levels from 10 to 80 % SOC	

(iii) Use data sources available today plus own technology to determine the SOH a. Vehicle, car data provider, inspection provider, car owner	
(iv) Generate a valid result of the battery health in % SOH of original certified capacity	
(v) Generate a certificate from an independent source (can use manufacturer information)	

(vi) Description of the test procedure (required hardware, required software, time to test, how to apply the test to the vehicle; General description and per Model instructions, limitations, and exclusions) Note: The testing algorithms and calculation needn't to be disclosed.	
(vii) Description of the test output e.g., example of a test report or certificate (please attach an example)	
(viii) Description of the test output e.g., example of a test report or certificate (please refer to section 8.2.2.2 of the terms of use for the certificate content and attach an example)	

(ix) Geographical and language availability of test	
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5 Technical Requirements

The provider must demonstrate that it can cover the following points with its system solution. Please state compliance or deviations in the right column.

(i) Readout of the manufacturer SOH The provider shall ensure that it can read out and display the manufacturer-specific battery health status (SOH) from the corresponding control units, such as: The Battery Management System (BMS), without manipulation. If the provider provides further information on the battery health status or carries out its own calculations and assessment of data, it must be ensured that this can be presented in a reproducible manner. Furthermore, the provider must plausibly present its assessment to the CARA working group. (e.g., calculate SOH from a Deterioration factor [%] or a remaining energy absolute value [kWh]). The value is intended to represent a percentage value. It further ensures that this process is reproducibly repeatable.	
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(ii) Long-term access (Secure Gateway Access) The provider must demonstrate and explain in the documents provided the methodology it uses to ensure long-term access to the data required to read out the battery health status. What countermeasures are taken on his side when vehicle manufacturers might block their OBD II interface against unauthorized access?	
(iii) Duration of the process The provider ensures a maximum readout time of 30 minutes. This includes all models listed under Chapter 7. The provider shows the readout duration of the different models.	

6 Requirements to cover the market

The providers must demonstrate that the test covers at least a predetermined percentage of BEV Passenger Vehicle Fleet registered in the previous year, including the confirmation, which brands and models can be tested with the test and any applicable exclusions. It is possible to provide a timeline of when tests for certain makes/models in future will be possible.

The provider needs to provide any evidence that tests have been performed for the minimum set of vehicles required and results

Vehicle registrations are based on official sources¹ or third parties that state their sources as an official authority. For simplicity, the minimum of 90% will be based on yearly registration at model level. As soon as new manufacturers of BEV vehicles enter the market relevant for CARA, they are included in the list of OEMs according to their respective percentage market coverage.

For 2025 certification and later, the level of model coverage is required to be at least 90%.

6.1 Minimum coverage²

Applicants will need to self-assess their coverage based on the following model basket. The applicant should indicate whether the brand/model can be tested at the time the application is submitted. If the brand/model cannot yet be tested, indicate the time when the applicant believes the brand/model can be tested.

#	Brands	Model	%	Aggregate	Can be tested	Can be tested as of	Remark
1	Tesla	Tesla Model Y	4.43%	4.43%			
2	Renault	Renault 5 E-Tech	3.26%	7.69%			
3	Tesla	Tesla Model 3	3.15%	10.84%			
4	VW	VW ID.3	2.94%	13.78%			
5	VW	VW ID.7	2.85%	16.64%			
6	VW	VW ID.4	2.80%	19.43%			

¹ Official sources refer to either a local vehicle registration authority, ex. KBA in German, or a relevant association, ex. ACEA

² Market share per OEM based on Q1 and Q2 of the year 2024 in the top 5 EU markets and the Benelux, excluding Belgium.

#	Brands	Model	%	Aggregate	Can be tested	Can be tested as of	Remark
7	Kia	Kia EV3	2.73%	22.16%			
8	BMW	BMW iX1	2.62%	24.78%			
9	Skoda	Skoda Elroq	2.40%	27.18%			
10	Skoda	Skoda Enyaq	2.34%	29.53%			
11	Audi	Audi Q6 e-tron	2.14%	31.66%			
12	Citroen	Citroen C3	2.14%	33.80%			
13	Cupra	Cupra Born	2.05%	35.85%			
14	BMW	BMW i4	2.00%	37.85%			
15	Renault	Renault Scenic E-Tech	1.76%	39.61%			
16	Dacia	Dacia Spring	1.75%	41.36%			
17	Mercedes	Mercedes EQA	1.69%	43.05%			
18	Audi	Audi Q4 e-tron	1.68%	44.73%			
19	Volvo	Volvo EX30	1.63%	46.36%			
20	Ford	Ford Explorer	1.58%	47.94%			
21	Mercedes	Mercedes EQB	1.42%	49.36%			
22	VW	VW ID. Buzz	1.42%	50.78%			
23	Hyundai	Hyundai Kona	1.28%	52.06%			
24	Cupra	Cupra Tavascan	1.26%	53.32%			
25	Hyundai	Hyundai Inster	1.18%	54.50%			
26	Peugeot	Peugeot 208	1.18%	55.68%			

#	Brands	Model	%	Aggregate	Can be tested	Can be tested as of	Remark
27	BMW	BMW iX2	1.06%	61.29%			
28	Porsche	Porsche Macan	1.04%	62.33%			
29	MG	MG 4	0.95%	63.28%			
30	Peugeot	Peugeot 3008	0.94%	64.22%			
31	BMW	BMW i5	0.93%	65.15%			
32	Audi	Audi A6 e-tron	0.91%	66.06%			
33	MINI	MINI One/Cooper	0.91%	66.97%			
34	Peugeot	Peugeot 2008	0.90%	67.86%			
35	Toyota	Toyota bZ4X	0.89%	68.76%			
36	Renault	Renault Megane E-Tech	0.89%	69.65%			
37	Audi	Audi Q4 e-tron Sportback	0.84%	70.49%			
38	Fiat	Fiat 500e	0.80%	71.29%			
39	MINI	MINI Aceman	1.06%	61.29%			
40	Hyundai	Hyundai Ioniq 5	1.04%	62.33%			
41	BYD	BYD Seal	0.95%	63.28%			
42	Opel	Opel Corsa	0.94%	64.22%			
43	Volvo	Volvo EX40	0.80%	72.09%			
44	Polestar	Polestar 4	0.73%	72.82%			
45	Ford	Ford Transit Custom	0.69%	73.50%			
46	MINI	MINI Countryman	0.67%	74.17%			

#	Brands	Model	%	Aggregate	Can be tested	Can be tested as of	Remark
47	VW	VW ID.5	0.66%	74.83%			
48	BYD	BYD Dolphin	0.65%	75.47%			
49	Kia	Kia EV6	0.64%	76.11%			
50	Jeep	Jeep Avenger	0.63%	76.75%			
51	BYD	BYD Atto 3	0.58%	77.33%			
52	Polestar	Polestar 2	0.58%	77.91%			
53	Leapmotor	Leapmotor T03	0.55%	78.46%			
54	Opel	Opel Combo	0.54%	79.00%			
55	Opel	Opel Mokka	0.52%	79.52%			
56	Ford	Ford Capri	0.52%	80.03%			
57	Peugeot	Peugeot 5008	0.50%	80.53%			
58	BMW	BMW iX	0.50%	81.03%			
59	Kia	Kia Niro	0.49%	81.52%			
60	Peugeot	Peugeot Partner	0.48%	82.00%			
61	Ford	Ford Puma	0.47%	82.47%			
62	Skoda	Skoda Enyaq Coupe	0.47%	82.94%			
63	Nissan	Nissan Ariya	0.46%	83.40%			
64	Renault	Renault Kangoo E-Tech	0.44%	83.85%			
65	BYD	BYD Sealion 7	0.41%	84.26%			
66	Opel	Opel Grandland	0.41%	84.66%			

#	Brands	Model	%	Aggregate	Can be tested	Can be tested as of	Remark
67	Citroen	Citroen Berlingo	0.41%	85.07%			
68	Mercedes	Mercedes EQE SUV	0.41%	85.47%			
69	Peugeot	Peugeot Expert	0.40%	85.87%			
70	Mercedes	Mercedes EQE	0.39%	86.26%			
71	Alpine	Alpine A290	0.38%	86.64%			
72	Opel	Opel Frontera	0.35%	86.99%			
73	BMW	BMW iX3	0.35%	87.34%			
74	Kia	Kia EV9	0.35%	87.69%			
75	Opel	Opel Vivaro	0.34%	88.03%			
76	Citroen	Citroen C3 Aircross	0.33%	88.36%			
77	Porsche	Porsche Taycan	0.32%	88.69%			
78	Omoda	Omoda 5	0.32%	89.00%			
79	Citroen	Citroen C4	0.30%	89.30%			
80	Volvo	Volvo EX90	0.30%	89.60%			
81	Xpeng	Xpeng G6	0.30%	89.90%			
82	Toyota	Toyota Proace City	0.29%	90.19%			
83	smart	smart #1	0.28%	90.47%			
84	Fiat	Fiat 600e	0.26%	90.73%			
85	BYD	BYD Dolphin Surf	0.26%	90.99%			
86	Volvo	Volvo EC40	0.26%	91.25%			

#	Brands	Model	%	Aggregate	Can be tested	Can be tested as of	Remark
87	Ford	Ford Mustang Mach-E	0.25%	91.50%			
88	Alfa	Alfa Romeo Junior	0.25%	91.75%			
89	MG	MG ZS	0.25%	92.00%			
90	BYD	BYD Seal U	0.24%	92.24%			
91	Leapmotor	Leapmotor C10	0.24%	92.48%			
92	Opel	Opel Astra	0.24%	92.71%			
93	Citroen	Citroen Jumpy	0.22%	92.93%			
94	Mercedes	Mercedes Citan	0.21%	93.14%			
95	Peugeot	Peugeot 308	0.20%	93.34%			
96	Fiat	Fiat Grande Panda	0.19%	93.54%			
97	Polestar	Polestar 3	0.19%	93.73%			
98	BYD	BYD Atto 2	0.19%	93.92%			
99	Hyundai	Hyundai Ioniq 6	0.19%	94.10%			
100	Mercedes	Mercedes Sprinter	0.18%	94.28%			
101	Jaguar	Jaguar I-Pace	0.18%	94.46%			
102	Renault	Renault Master E-Tech	0.18%	94.64%			
103	Lexus	Lexus RZ	0.17%	94.81%			
104	smart	smart #3	0.17%	94.98%			
105	BMW	BMW i7	0.16%	95.13%			
106	Renault	Renault 4 E-Tech	0.15%	95.28%			

#	Brands	Model	%	Aggregate	Can be tested	Can be tested as of	Remark
107	Audi	Audi Q6 e-tron Sportback	0.15%	95.44%			
108	Nissan	Nissan Townstar	0.15%	95.59%			
109	Toyota	Toyota Proace	0.15%	95.74%			
110	BYD	BYD ETP3	0.15%	95.89%			
111	Mercedes	Mercedes Vito	0.15%	96.03%			
112	MG	MG S5	0.14%	96.18%			
113	GWM	GWM Ora 03	0.14%	96.32%			
114	Xpeng	Xpeng G9	0.14%	96.46%			
115	Ford	Ford Transit	0.14%	96.60%			
116	Mazda	Mazda MX-30	0.14%	96.74%			
117	Mercedes	Mercedes EQV	0.13%	96.86%			
118	Maxus	Maxus e-Deliver 3	0.11%	96.98%			
119	Audi	Audi e-tron GT	0.10%	97.08%			
120	Maxus	Maxus e-Deliver 9	0.10%	97.18%			
121	Mercedes	Mercedes G Class	0.10%	97.27%			
122	Citroen	Citroen C4 X	0.09%	97.36%			
123	Lotus	Lotus Eletre	0.09%	97.45%			
124	Mercedes	Mercedes EQS	0.09%	97.54%			
125	Mercedes	Mercedes EQS SUV	0.08%	97.62%			
126	MG	MG Cyberster	0.07%	97.70%			

#	Brands	Model	%	Aggregate	Can be tested	Can be tested as of	Remark
127	Ford	Ford Transit Courier	0.07%	97.77%			
128	Renault	Renault Trafic E-Tech	0.07%	97.84%			
129	Abarth	Abarth 500e	0.07%	97.91%			
130	Fiat	Fiat Doblo	0.07%	97.98%			
131	DS	DS 3	0.06%	98.04%			
132	Genesis	Genesis GV60	0.06%	98.10%			
133	VW	VW Transporter	0.06%	98.16%			
134	LEVC	LEVC TX	0.06%	98.21%			
135	Audi	Audi Q8 e-tron Sportback	0.06%	98.27%			
136	MG	MG 5	0.05%	98.32%			
137	Dongfeng	Dongfeng Nammi 01	0.05%	98.37%			
138	Nissan	Nissan Leaf	0.05%	98.42%			
139	Audi	Audi Q8 e-tron	0.05%	98.48%			
140	DS	DS No 8	0.05%	98.53%			
141	Renault	Renault Trucks Master E-Tech	0.05%	98.58%			
142	Honda	Honda e:Ny1	0.04%	98.62%			
143	other	other Models	0.04%	98.66%			
144	smart	smart #5	0.04%	98.71%			

#	Brands	Model	%	Aggregate	Can be tested	Can be tested as of	Remark
145	Abarth	Abarth 600e	0.04%	98.75%			
146	Mercedes	Mercedes CLA	0.04%	98.79%			
147	Fiat	Fiat Scudo	0.04%	98.83%			
148	Lexus	Lexus UX	0.04%	98.87%			
149	MG	MG Marvel R	0.04%	98.91%			
150	DR	DR 1.0	0.04%	98.95%			
151	Lancia	Lancia Ypsilon	0.04%	98.98%			
152	Goupil	Goupil G4	0.03%	99.02%			
153	Toyota	Toyota Mirai	0.03%	99.05%			
154	Subaru	Subaru Solterra	0.03%	99.08%			
155	Skyworth	Skyworth EV6	0.03%	99.11%			
156	Cadillac	Cadillac Lyriq	0.03%	99.14%			
157	Genesis	Genesis GV70	0.03%	99.17%			
158	Lynk	Lynk & Co 02	0.03%	99.20%			
159	Toyota	Toyota Proace Max	0.03%	99.23%			
160	BYD	BYD Tang	0.03%	99.26%			
161	DFSK	DFSK C Series	0.03%	99.28%			
162	Maxus	Maxus T90	0.02%	99.31%			
163	Zeekr	Zeekr 7X	0.02%	99.33%			

#	Brands	Model	%	Aggregate	Can be tested	Can be tested as of	Remark
164	Zeekr	Zeekr X	0.02%	99.35%			
165	KGM	KGM Torres	0.02%	99.38%			
166	Tesla	Tesla Model X	0.02%	99.40%			
167	Maxus	Maxus e-Deliver 7	0.02%	99.42%			
168	Peugeot	Peugeot Boxer	0.02%	99.44%			
169	Fiat	Fiat Ducato	0.02%	99.46%			
170	Opel	Opel Movano	0.02%	99.48%			
171	Iveco	Iveco Daily	0.02%	99.50%			
172	Lotus	Lotus Emeya	0.02%	99.52%			
173	Renault	Renault Twingo	0.02%	99.54%			
174	Porsche	Porsche Cayenne	0.02%	99.56%			
175	Tesla	Tesla Model S	0.02%	99.57%			
176	KGM	KGM Korando	0.02%	99.59%			
177	Xpeng	Xpeng P7	0.01%	99.60%			
178	Zeekr	Zeekr 001	0.01%	99.62%			
179	Renault	Renault Trucks Traffic E-Tech	0.01%	99.63%			
180	Maserati	Maserati Grecale	0.01%	99.64%			
181	Aiways	Aiways U5	0.01%	99.66%			

182	Maxus	Maxus Euniq 6	0.01%	99.67%			
183	Maxus	Maxus e-Deliver 5	0.01%	99.68%			
184	Lucid	Lucid Air	0.01%	99.69%			
185	Goupil	Goupil G6	0.01%	99.70%			
186	Rolls-Royce	Rolls-Royce Spectre	0.01%	99.72%			
187	Mercedes	Mercedes EQT	0.01%	99.73%			
188	VW	VW Up	0.01%	99.74%			
189	DFSK	DFSK K Series	0.01%	99.75%			
190	Mercedes	Mercedes EQC	0.01%	99.76%			
191	Peugeot	Peugeot 408	0.01%	99.77%			
192	Nissan	Nissan Interstar	0.01%	99.78%			
193	Hyundai	Hyundai Ioniq 9	0.01%	99.79%			
194	Mercedes	Mercedes other	0.01%	99.79%			
195	Maxus	Maxus Mifa 9	0.01%	99.80%			
196	Maxus	Maxus e-Terron 9	0.01%	99.81%			
197	Vinfast	Vinfast VF 8	0.01%	99.82%			
198	Other		0,00%	100%			

Any changes in the Applicants' details and/or information provided in this Application must be communicated to the CARA Board.

Yours faithfully, Signed	
Date	
Full Name	
Position	
Company	