

Workshop on Automotive Low-Voltage Battery Advancements

24-25 June 2027
Stuttgart, Germany

The ALBA Workshop series has established itself as the go-to place for automotive 12 V battery experts discussing **new battery requirements** arising from vehicle hybridization and electrification, functional safety and new power-supply topologies – as well **as improvements in battery technology** to better serve these future demands.

Why you should be at ALBA 27

- get the automotive system view: understand how your work supports new vehicle demands
- understand 12V sodium-ion, lithium-ion and lead battery challenges and opportunities
- priority access to content and tools prepared exclusively for this workshop
- active workshop atmosphere, learning by doing, learning by discussion
- over 80 technology experts from all along the supply chain – from materials to the vehicle
- 92.7% participants satisfaction 2025 (“worth the time and money spent”)

Key areas of the technical agenda 2027 will be

- **Cold performance:** From 12V (24V) load profiles to cell and CCA specifications, as well as cold charging: How can we predict and improve lead, lithium and sodium winter operation?
- **Power recovery:** How can we benchmark recovery of power performance (state of function SOF) in lead versus sodium batteries? Which improvements can be expected per technology?
- Battery **operation and management:** Reliable yet cost-efficient solutions for batteries in 12V and 24V systems – system-design optimization versus commodity over-engineering?
- **Test methodology** for auxiliary, backup, stop/start, micro and mild hybrid batteries: best practices, cross-laboratory implementation, test validation, correlations, reference data.

The ALBA workshop series, since 2017, is bringing together experts from vehicle manufacturers, battery makers, material and component suppliers, as well as test and research laboratories, to discuss application-driven topics. Travel synergies can be achieved by co-location with 3 other events in the same week same Town: Europe’s largest battery fair, **The Battery Show Europe**, the Consortium for Battery Innovation (**CBI**) **European Technical Workshop**, and a meeting of the international standardization expert group (IEC TC21 WG2) discussing the draft **12V sodium-ion norm** as well as ongoing lead-battery activities.



Bringing together global technical experts from the battery and automotive industries, ALBA is organized in close collaboration with *European Committee for Electrotechnical Standardization* (CENELEC TC21X WG3), *International Electrotechnical Commission* (IEC TC21 WG2), and *Consortium for Battery Innovation* (CBI).

During the main workshop on 24/25 June in Stuttgart, **compact plenary talks** will expose key results and summaries to all participants. In interactive break-out sessions, each participant will have the opportunity to **discuss in depth** individual papers. Several weeks before this face-to-face meeting, webinars will provide **up-to-date overview** presentations to all registrants. The event in June will be preceded by **virtual workstreams** during which content is prepared and organized collaboratively. , The virtual workstreams are concluded by the face-to-face Speakers' Day on 18 May and require Advance Registration.

Timeline of events		Advance Registration	Late Registration	combine travel
Jan – May	Virtual workstreams on 4 subject areas, collaboratively preparing content (expert discussions, shared testing)	Included		
May - June	3 webinars providing reviews, industry trends, detailed workstream results	Included	Included	
Tue 22 June	IEC TC21 WG2 meeting CBI European Technical Workshop	Optional for members and guests		The Battery Show Europe Stuttgart Tech Fair
Wed 23 June	Speakers' Day: in-depth review of virtual workstream results, develop collaboration ideas	Included		
24-25 June	ALBA Workshop: express presentations, breakout sessions, group discussions, OEM feedback	Included	Included	

Advance Registration will be open **until 22 December 2026**, supporting the virtual workstreams that form a significant part of our joint learning experience in ALBA 27. Late registrants will have access to 3 webinars and the 2-day live workshop. **Discounted hotel rooms** are available through our registration website, too:

<https://ALBA-workshop.info>

Registration fees (VAT will be added)	Advance Registration by 22 December	LateRegistration	
		by 21 May	after 21 May
Participation	1,199 €	1,499 €	1,599 €
group discount	- 200 €	- 200 €	- 200 €
Students, vehicle OEM experts	849 €	969 €	969 €

ALBA is organized by Eckhard Karden Consulting, Aachen, Germany. Dr. Karden has over 30 years professional experience in the field of automotive batteries and power supply systems, including 21 years in Ford corporate research and advanced engineering. Write us at info@alba-workshop.info