



CALL FOR PAPERS

Inaugural Direct Power Alliance Conference

June 22-23, 2027

The Direct Power Alliance invites original papers on native-DC (800VDC) power for AI data centers, from generation to the rack. Submission is free and open; accepted papers are peer-reviewed and published in the conference proceedings.

Important dates

Call for papers issued	October 2026
Submission deadline	February 1, 2027
Peer review period	February to March 2027
Author notifications	April 5, 2027
Camera-ready papers due	May 10, 2027
Inaugural conference & proceedings	June 22-23, 2027

All deadlines are 23:59 anywhere-on-earth. Dates are anchored to the inaugural conference and confirmed once the venue is booked.

Topics

Papers should map to one of the Alliance's technical working groups, or to the cross-cutting track:

Generation & Storage. Native-DC generation - fuel cells, linear and reciprocating gensets, solar, marine/wind DC - and DC-coupled storage; sizing and control for an 800VDC bus; behind-the-meter and islanded microgrid dispatch.

Distribution & Bus. 800VDC bus architectures; voltage convention (800 V monopolar vs +/-400 V bipolar); conversion topologies and wide-bandgap (SiC/GaN) power electronics; connectors and the DC physical layer; efficiency and conversion-loss analysis.

Protection & Safety. DC fault detection and interruption; arc-flash mitigation without a natural zero-crossing; grounding and bonding; protection coordination; safety cases for the data hall.

Codes & Certification. Listing and certification pathways (UL/IEC); integration with NEC and IEC codes; AHJ considerations; interoperability, conformance testing, and the path from reference design to adopted standard.

Cooling & Heat Removal. Native-DC cooling-plant equipment and motor drives - DC-fed compressors, pumps, fans, and CDUs on the 800VDC bus; power electronics for thermal loads; the power interface between cooling and the DC architecture (not thermal/fluid standards).

Cross-cutting. Total-cost-of-ownership and reliability modeling; pilot and demonstration results; economic, policy, and grid-interconnection analysis for native-DC AI data centers.

Submission

- **Free and open** - anyone may submit; no membership is required to submit.
- **Format** - PDF, two-column IEEE style. Full papers up to 8 pages; short papers and work-in-progress up to 4 pages.
- **Review** - double-blind; please anonymize submissions. Each paper receives at least two independent reviews.
- **Originality** - submissions must be original and not under concurrent review elsewhere.

Membership on acceptance

To preserve an open, credible process, submission is free. Upon acceptance, at least one author per paper must be a member of the Alliance - an Individual (\$120/yr) or Research & Academic (\$1,800/yr) membership qualifies - and must register for the conference to present and be included in the published proceedings.

Publication & awards

Accepted papers appear in the open-access conference proceedings (with a citable DOI via an archival partner). The program committee will recognize a Best Paper and a Best Student Paper.

Questions and submissions: papers@directpoweralliance.org | directpoweralliance.org | The submission portal opens with the CFP in October 2026.