LUMIVOLT

Power, Integrated.

Residential and C&I energy storage, low- and medium-voltage power distribution, and solid-state transformers — designed as one platform rather than sourced as three.

Energy Storage | Power Distribution | Solid-State Transformer | OEM / ODM

Shenzhen Lumivolt Energy Co., Ltd.
深圳曜驰能源有限公司

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Company & Product Overview
2026 · Rev. 2.4

Who We Are

COMPANY OVERVIEW

Lumivolt Energy is an export-first manufacturer of energy storage and power distribution equipment. Commercial coordination runs from our Singapore office; engineering, testing and manufacturing sit with our own team. We build for system integrators, distributors, and OEM customers who need one accountable supplier across storage, distribution, and power electronics.

What makes the platform different

Most suppliers sell one part of the chain. Battery, inverter, and low-voltage distribution typically come from three vendors, each correct on its own, with the failures appearing at the interfaces — protocol mismatches, conflicting protection settings, and no single party responsible for the warranty. We design the three as one system: one engineering team, one set of protection settings, one warranty.

2026	3	5	1
FOUNDED	PRODUCT LINES	APPLICATION AREAS	ENGINEERING PLATFORM

Product lines

LINE	WHAT WE DELIVER	TYPICAL APPLICATION
Energy storage	Battery modules and BMS, PCS, integrated storage cabinets	Residential, C&I, microgrid
Power distribution	Low-voltage assemblies, distribution panels, protection coordination	Buildings, industrial sites, storage plants
Solid-state transformer	Medium-voltage to low-voltage solid-state conversion	Data centres, EV charging, MVDC links

Certification status

We publish our certification roadmap openly, including what is still in progress. This is reviewed and updated as work advances.

STANDARD	SCOPE	STATUS	WHAT IT MEANS
IEC 62619	Battery safety, industrial	In progress	No certificate held; test report pending
UN 38.3	Transport of lithium cells	In progress	No test summary held
IEC 62477-1	Power electronic converter safety (PCS / SST)	In progress	Type testing under way for 13.8 kV / 3.5 MW and 10 kV / 2.5 MW
IEC 61439	LV switchgear and controlgear assemblies	Designed to	Designed to IEC 61439 / GB 7251; verification per project
CE Marking	EU market access	Not started	No declaration of conformity issued
ISO 9001	Quality management	Not started	No certificate held

Why we publish this. A new supplier should be judged on what it can prove, not on what it claims. Where we are not yet certified, we say so. The full register, with evidence held and revision dates, is on the Quality & Compliance page of our website.

Product Specifications

TECHNICAL OVERVIEW

Models are configured per project. The parameters below describe the design envelope; final values are confirmed in the project datasheet after the load profile and grid conditions are known.

Residential energy storage system

PARAMETER	SPECIFICATION
Configuration	Wall-mounted / floor-standing; single-phase / three-phase
Capacity	Multiple configurations, selected per project
Battery chemistry	Lithium iron phosphate (LFP)
Nominal voltage	System voltage per configuration
Cycle life	Rated at stated depth of discharge, temperature, and rate
Protection rating	IP rating per enclosure selection
Operating temperature	Per configuration; derating above rated range
Communication	CAN / RS485; protocol mapping per host system
Monitoring	Local and remote, with per-cell BMS protection

C&I energy storage system

PARAMETER	SPECIFICATION
Capacity range	kWh to MWh class, per project
Cooling	Air-cooled / liquid-cooled depending on project
Enclosure	Cabinet or container format
Grid interface	Grid-tied, grid-forming, and off-grid modes
Protection	Coordinated with the LV distribution assembly
Fire safety	Per-cell monitoring, gas detection, and isolation options

Low-voltage power distribution

PARAMETER	SPECIFICATION
Format	Fixed, withdrawable, and modular assemblies
Voltage	Low-voltage systems per project requirement
Protection	Selectivity study and coordinated settings
Integration	Designed as one package with storage and inverters

Datasheet discipline. Cycle life, efficiency, and capacity figures only hold at the stated depth of discharge, temperature, rate, and end-of-life criterion. We state those conditions with every number rather than quoting a headline value alone.

Solid-State Transformer & Cooperation

TECHNOLOGY · PARTNERSHIP

Why the transformer is the bottleneck

A conventional medium-voltage chain moves through transformer, low-voltage switchgear, and then a separate power converter for each load. Every stage carries losses, occupies floor area, and adds a coordination point. A solid-state transformer performs voltage conversion electronically at higher frequency, which removes the iron-and-copper core, reduces footprint and weight, and adds functions that a passive transformer cannot provide.

ASPECT	CONVENTIONAL CHAIN	LUMIVOLT SST APPROACH
Conversion stages	Transformer → LV switchgear → separate converters	Single electronic conversion stage
Footprint and weight	Substantial, driven by the iron core	Materially reduced
Power quality control	Limited; passive	Active voltage and power-factor control
Isolation	Galvanic via the transformer	Isolation provided within the converter
DC interface	Requires additional rectifier stages	Native DC interface
Monitoring	External sensors on each stage	Inherent in the converter control

Commercial record. The platform behind our SST line is not a laboratory prototype: three 10 kV / 2.42 MVA / 800 VDC units have been in service at a data-centre campus since September 2023, a separate 750 V series is grid-connected at a solar-storage-charging park, and a 2026 export order for four 13.8 kV / 800 VDC units is in delivery. The position is early: small-batch commercialisation, not cloud-vendor volume procurement.

How we work with partners

Distribution

Territory-based distribution with product training and technical support.

OEM / ODM

Configuration, enclosure, labelling, and documentation to your specification.

Joint development

SST and integrated-system projects with shared engineering effort.

What we need to quote

1. Load profile or daily consumption curve, and peak demand
2. Grid conditions: voltage, phase, earthing system, and protection scheme
3. Application: backup, self-consumption, peak shaving, or off-grid
4. Target market, so certification scope can be defined up front
5. Expected annual volume and delivery schedule

With these five items we can return a configuration and a commercial offer rather than a generic price list.

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TECHNICAL

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Markets we serve

Southeast Asia

Singapore · Malaysia · Vietnam · Indonesia · Thailand · Philippines

Middle East

UAE · Saudi Arabia · Qatar · Kuwait · Oman · Bahrain

Europe

Germany · Netherlands · Belgium · Austria · Switzerland · United Kingdom

North America

United States · Canada · Mexico

COMPANY

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ENGINEERING & MANUFACTURING

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