Volex

Volex Energy Hardware Solutions

Custom interconnects and vertically integrated manufacturing for energy equipment OEMs and system integrators.



POWER AND CONNECTIVITY BUILT AROUND YOUR PROGRAM

From custom power interconnects to integrated box builds, Volex provides engineering and manufacturing support to help move energy hardware programs from prototype to production.

ENERGY APPLICATIONS

BATTERY ENERGY STORAGE
Battery interconnects, custom busbars and cabinet assemblies

ONSITE POWER AND DATA CENTRES
Power distribution, custom interconnects and system integration

BATTERY-BACKED EV DEPOTS
EV charging connectivity, storage interconnects and power assemblies

INDUSTRIAL MICROGRIDS
Custom harnesses, power distribution and electromechanical assemblies

LONG DURATION STORAGE
Custom power and control assemblies for evolving storage systems

HOME ENERGY AND ELECTRIFICATION
Battery connections, PCBA integration, panel wiring and box builds

WHY VOLEX

CUSTOM	Custom wiring harnesses, battery cables and rigid or flexible busbars.
INTEGRATED	PCBAs, harnesses, connectors and enclosures integrated into tested assemblies.
SCALABLE	Prototyping and NPI support, from initial builds to volume production.
GLOBAL	A diversified, vertically integrated manufacturing footprint supports localisation strategies and supply continuity.

VOLEX INTEGRATED POWER & CONNECTIVITY SOLUTIONS

Solar DC Cable Assemblies



PV string cables, branch cables and custom lengths

DC Power Harness and Interconnect



High current DC harnesses for combiner boxes, BESS and PCS

Battery Interconnect Cables and Busbars



Modeule-to-module interconnets, busbars and flexible connections

PCS and Inverter Power Cables



Power output cables, phase cables and grounding cables

Control and Signal Harness Assemblies



BMS, sensors, communication and control harness

Thermal Management and Sensor Cables



Cooling system cabling, temperature sensors and monitoring leads

Grid Connection Cables



AC power cables for transformer, switchgear and grid interconnection

Safe & Reliable
Engineered for safety, compliance and long-term reliability

Custom Engineered
Tailored cable and harness solutions to meet customer requirements

Global Capability
Design, manufacturing and support worldwide

Sustainable solutions
Enabling the transition to a cleaner energy future

BATTERY ENERGY STORAGE SYSTEMS

Battery interconnects and integrated assemblies for storage equipment OEMs.



CORE ASSEMBLY SCOPE

- Battery cables and custom busbars
- Power and control harnesses
- Cabinet wiring and enclosure assemblies
- Connector, header and PCBA integration

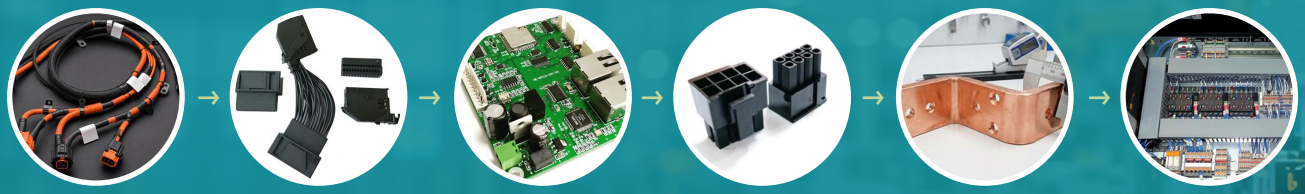
TESTING ALIGNED TO THE PROGRAM

Testing requirements are defined for each program according to the assembly, manufacturing site, target standards and agreed qualification plan.

Product availability, engineering scope, manufacturing location, capacity, test coverage and applicable certifications are confirmed for each program.

VERTICAL INTEGRATION. SIMPLIFIED SUPPLY CHAINS.

Our vertically integrated manufacturing model brings key capabilities together within a global network, helping customers reduce supply chain complexity, improve manufacturing control and scale production with confidence.



Cable Assemblies → **Wire Harness** → **PCBAs** → **Plastics** → **Metal Fabrication** → **Box Build & Systems**

ENGINEERING AND MANUFACTURING FOR YOUR PROGRAM

DEFINE	REVIEW	ENGINEER	EVALUATE	SCALE
Application, requirements and volumes	Architecture and assembly scope	Design and manufacturing approach	Prototype and validate	Production and localisation



START WITH ONE ASSEMBLY

Have an interconnect or assembly challenge?
Let's review it together and see where Volex can help.

CONTACT VOLEX

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