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POWER DISTRIBUTION SYSTEM SOLUTION

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01 ABOUT GREENGRID

2005 FOUNDED IN 2005
The Digital SCM Platform Company

Founded in 2005, GreenGrid Group is a global, platform-oriented industrial group specializing in the power and renewable energy sectors.

Through its **AI-driven digital Supply Chain Management (SCM) platform,** GreenGrid connects global markets, industrial resources, and partners to deliver integrated, efficient, and resilient supply chain solutions.

Combining digital innovation with global operational capabilities, GreenGrid empowers cross-border collaboration, optimizes supply chain performance, and supports the sustainable development of the global energy industry.

Core Business

01

Digital SCM Platform

An AI-enabled platform connecting market intelligence, sourcing, suppliers, orders, quality, logistics, and data-driven decisions.

AI & Data | End-to-End SCM | Global Collaboration

02

Capacity Investment & Localization

Investment in overseas production capacity and localized operations strengthens regional manufacturing, compliance, and supply stability.

Local Capacity | Regional Delivery | Compliance

03

Project Investment & Operation

Participation in power and renewable energy infrastructure projects supports efficient delivery and sustainable long-term operation.

Project Investment | Infrastructure Delivery | Long-term Operation

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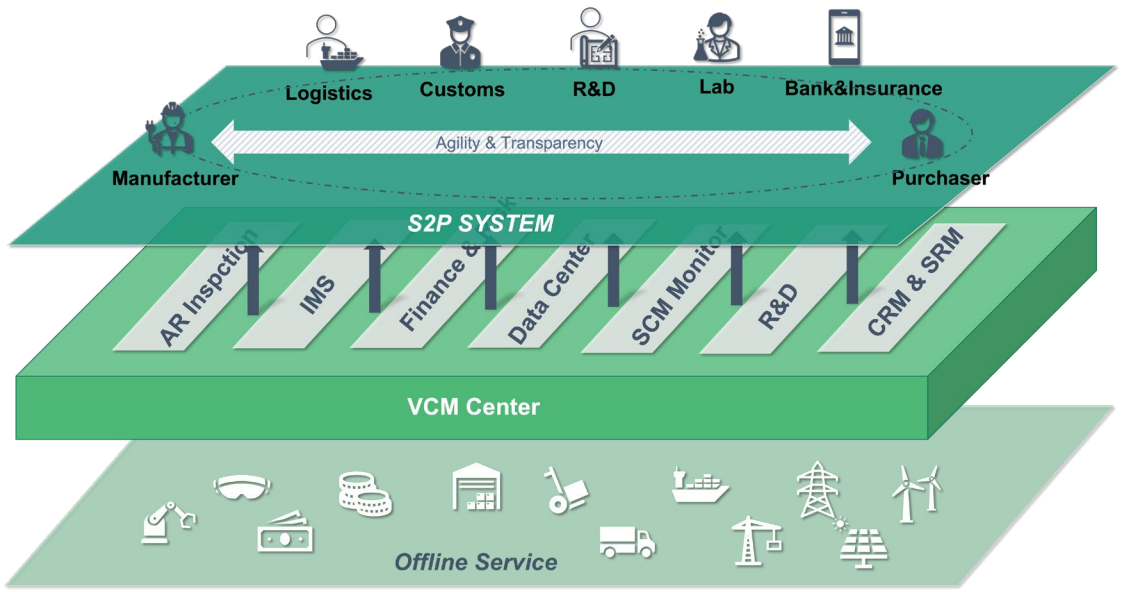


Solutions

- H.V. Overhead Transmission Solution
- AIDC Power Supply Solution
- H.V. Substation Solution
- Solar PV System Solution
- Underground T&D Solution
- Energy Storage Solution
- M.V. Distribution Solution
- Wind Power Integration Solution
- L.V. Distribution Solution
- Power Plant Solution
- Transformer Components Solution
- EV Charger Solution

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Supply Chain Management Capability



End to end digital supply chain management platform

SOURCING

- Product, component, materials
- Production equipment, Test equipment
- Suppliers

R&D

- R&D, Mold, Sample
- Type Test

SUPPLIER EVALUATION

- Supplier Prequalification
- On-site Evaluation
- Annual Audit and Improvement

QUALITY CONTROL

- 100% Inspection
- AR Test
- Product Tracking

PROCUREMENT MANAGEMENT

- Online Order Tracking
- BI Report and Improvement Advice
- Logistics Service

PROJECT MANAGEMENT

- System & Equipment Design
- Safety and Risk Assessment
- Warehousing Service
- Installation & Commissioning
- Preventive & Predictive Maintenance

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Global Footprints



GreenGrid is an integrated enterprise specializing in data center supply chain management, prefabricated product R&D, manufacturing, construction, and comprehensive services.

Intelligent Manufacturing Base

Integrated manufacturing facilities supporting GreenGrid's **LV busway, Switchgear, Transformer and Cable Tray** solutions and project delivery.











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Intelligent Manufacturing Base

Integrated manufacturing facilities supporting GreenGrid's **Prefabricated Cabin** solutions and project delivery.



AIDC Smart Modular Cabin



AIDC Cooling Piping System



Battery Energy Storage System



Mobile Solar Energy System



INTEGRATED PRODUCTION LINE

Production Facility Area: 50,000 m^2

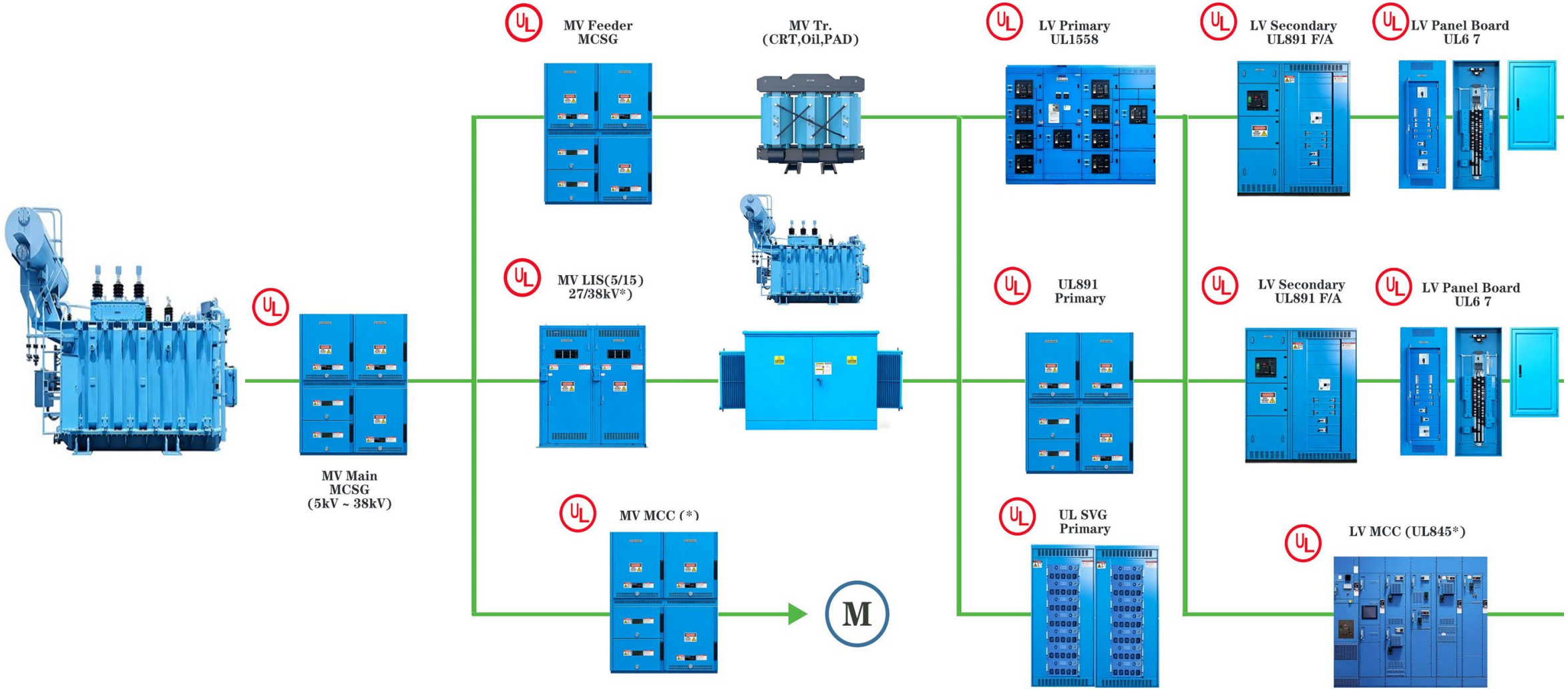
CLASSIFICATION SOCIETY TESTING

Equipped with an in-house classification society certification laboratory, capable of completing certification reports within 7 days, with ABS and CCS classification society certifications.

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02

POWER DISTRIBUTION SYSTEM SOLUTION



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MEDIUM VOLTAGE SWITCHGEAR - IEEE/UL



PRODUCT DESCRIPTION

MV gas-insulated metal-enclosed switchgear is an integrated assembly of SF6 pressurized tanks, bus and disconnect switches that are coordinated electrically and mechanically for medium-voltage circuit protection. Horizontal bussing uses a solid shielded insulation system.

MV C-GIS compact switchgear provides centralized control and protection of medium-voltage power equipment and circuits in data center, industrial, commercial and utility installations involving generators, motors, feeder circuits, and transmission and distribution lines. **GI**S compact switchgear is an integrated assembly of switches, bus and vacuum circuit breakers. All structures use single-high breaker arrangements.

RMU are perfectly coordinated to meet medium-voltage electrical distribution requirements. designed, manufactured, and tested in accordance with the ANSI standards.

RMU AND C-GIS RATINGS AND STANDARDS

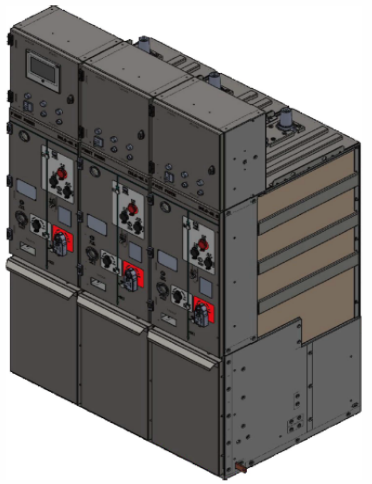
ANSI Standard	C37.04-2008 IEEE Standard for ratings and requirements for AC High-Voltage circuit breakers with rated maximum voltage above 1000V C37.09-2010 IEEE Standard test procedures for AC High-Voltage circuit breakers with rated maximum voltage above 1000V C37.20.9-2019 IEEE Standard for Metal-Enclosed switchgear rated 1 kV to 52 kV incorporating gas insulated systems	C37.54-2002 Indoor AC High-Voltage circuit breaker applied as removable elements in Metal-Enclosed Switchgear- Conformance test procedures C37.57-2003 Switchgear - Metal-Enclosed interrupter Switchgear Assemblies - Conformance Testing C37.58-2010 Switchgear - Indoor AC Medium-Voltage switches for use in Metal-Enclosed Switchgear- Conformance test proceduresC37.010-1999 IEEE Guide for AC High-Voltage Circuit Breakers > 1000 Vac rated on asymmetrical current basis
Other	IEEE-1247-2005 IEEE Standard for interrupter switches for alternating current, rated above 1000V	IEC 62271-200 NFPA 70/NEC - National Electrical Code

RMU& CGIS

IEEE C37.20.9
Rated Voltage: 5~38kV
Rated current: up to 3000 A
Breaking current: up to 40 kA

RMU CABINET RANGE AND APPLICATION

- Designed, manufactured, and tested in accordance with the following ANSI standards.
  15/27/38kV, 600A, 20kA, 150kV BIL.
- SF6 Gas Insulated, metal-enclosed switchgear, Indoor /Outdoor application.
- Compact for installation in wind farm turbines and MV transformer substations.
- Largest modular unit only 24" wide.
- Sealed-for-life, reduced-maintenance circuit breaker and bus bar compartments.



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LV SWITCHGEAR



PRODUCT DESCRIPTION

LV Switchgear is industrial-duty equipment built to ANSI standards and uses 100% rated Low Voltage Power Circuit Breakers. It is designed to have more margin within its ratings to provide maximum continuity of service for those applications subject to severe duty, such as repetitive switching encountered with motor starting, power factor correction, demand control, load shedding, etc.

A major factor contributing to this extended continuity of service is the availability of renewal parts complete with detailed maintenance instructions and original equipment documentation. From a coordination standpoint, Circuit breakers provide full selectivity with each other and with other protective devices. The bus sizing is based on temperature rise rather than on current density (as with switchboard construction).

STANDARDS

UL 1558 - Metal-Enclosed Low Voltage Power Circuit Breaker Switchgear

ANSI C37.20.1 - Metal-Enclosed Low Voltage Power Circuit Breaker Switchgear

TECHNICAL SPECIFICATIONS

Frame types	TYPE-4	TYPE-2	TYPE-1
ACB AF (A)	600\1000\1200\1600	800\1000\1200\1600\2000 2500\3200	3200\4000\5000\6000
Horizontal current (A)	Up to 6000		
Vertical current (A)	Up to 1600	Up to 4000	Up to 6000
Rated voltage (V)	254/508/635		
Rated frequency (Hz)	60		
Rated Short circuit current (Horizontal) (kA/s)	150 / 1		
Rated short circuit current (vertical)(kA/s)	65/1 149.5	85/1 195.5	100/1 230
AC withstand voltage (kV) 1min	2.2		
Arc resistance current Type 2B 100kA/0.5sec	100kA/0.5sec		
Size (W×D×H) inch	26×70×90	36×80×90	48×80×90
Number of circuit breakers /panel	4	2	1
Applicable standard	IEEE C37.20.1/UL1558/IEEE C37.20.7/ANSI C37.51		

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INDUSTRIAL CONTROL PANEL-UL 508A



PRODUCT DESCRIPTION

Industrial control panel intended for general industrial use up to a rated voltage of 1,000 V and intended for installation in ordinary areas by the National Electrical Code ANSI/NFPA 70 with a maximum ambient temperature of 40 °C (104 °F). include meters & devices wired to terminal blocks, disconnects, and shorting blocks or test switches.

CORE FEATURES

- Protection, automation & control builds: In-house manufacturing for protection, automation, and control equipment—built to your project requirements for industrial and utility applications.
- Flexible enclosures & cabinet options : Indoor/outdoor cabinet designs in stainless steel, mild steel, and other materials—plus enclosures, racks, bezels, plates, portables, swing panels, and doors.
- Certified, proven & production-ready : Seismic- and UL-certified cabinets for demanding environments, with rapid prototyping using additive manufacturing and technology, plus Customer Witness FAT.

METERING AND ENCLOSURE CONFIGURATION OPTIONS

- NEMA 3R rated painted steel enclosure with a lockable latch and dead front inner door.
- Light Industrial Enclosure Type 1, UL & CUL 508A Listed.
- Supports Single Voltage Source only for Indoor (Type 1) applications.
- Available with 1–12 meters per panel. Serial Communications are standard for all units.
- No Digital or Analog I/O is available for this option.
- Service Entrance/Utility Socket Enclosure Type 3R, UL & CUL 508A Listed.
- Available for ION8650 only, with up to 3 Digital Inputs and 4 Digital Outputs.
- Supports Single Voltage Source only for Indoor & Outdoor (Type 3R) applications.
- Units are Ring Type with removable cover.
- Available with 1 meter per panel. Serial & Ethernet Communications options available.
- Options available for remote mounted Cts.
- Options available for integrated, bar type Cts.
- Optional Test Switch.



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THREE PHASE PAD MOUNTED TRANSFORMER

PRODUCT DESCRIPTION

The three-phase pad-mounted transformer is a ground-mounted solution housed in a lockable steel cabinet, installed on a concrete pad. Designed for underground power distribution, it operates in medium-voltage networks up to 35 kV, with power ratings from 15 kVA to 5000 kVA. With all energized connections securely enclosed in a grounded metal housing, it can be safely installed without a fenced enclosure, making it ideal for public and high-traffic areas. These transformers efficiently regulate voltage, stepping up or down as needed.

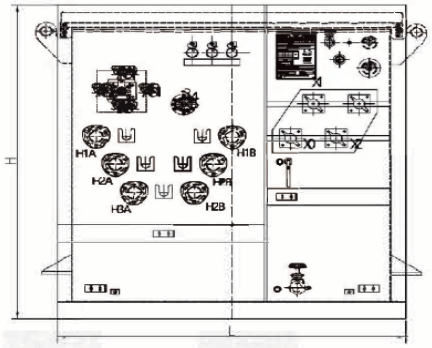


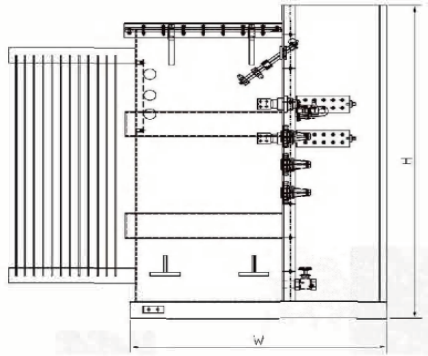
APPLICATION SCENARIOS

Pad-mounted transformers are widely used in commercial, industrial, and residential power distribution networks, offering a safe, reliable, and space-efficient solution. They are commonly applied in residential power distribution for underground networks, ensuring a stable supply for housing developments. In urban infrastructure, they are installed in street basements, malls, and office buildings, providing compact and aesthetically pleasing designs. For industrial facilities, they offer efficient and secure power distribution in factories and warehouses. Additionally, they are ideal for public spaces like parks, schools, hospitals, and commercial complexes, where safety and accessibility are key considerations.

KEY ADVANTAGES

Pad-mounted transformers include built-in fuses and switches. Primary power cables may be connected with elbow connectors, allows for flexibility in repair and maintenance. The core and coils are enclosed in a steel oil-filled tank, with terminals for the transformer accessible in an adjacent lockable wiring cabinet. The wiring cabinet has high and low-voltage wiring compartments. High and low-voltage underground cables from below enter the terminal compartments directly. Pad-mount transformers have self-protecting fuses consisting of a bayonet mount fuse placed in a high voltage compartment, with a backup high energy current limiting fuse in series to protect against secondary faults and transformer over load. These transformers also serve the conventional low voltage fusing requirement string efficiency, safety, and versatility for diverse applications.





Rated capacity (kVA)	Rated voltage and tapping range		Efficiency	
	High voltage (kv)	Low voltage (kv)	DOE(2016)	CSA(2023)
75	35KV 25KV 15KV	240V 480V 480YV 277V 600Y V 347V	99.03	98.95
112.5			99.11	99.04
150			99.16	99.09
225			99.23	99.17
300			99.27	99.21
500			99.35	99.30
750			99.40	99.35
1000			99.43	99.38
1500			99.48	99.44
2000			99.51	99.47
2500			99.53	99.49

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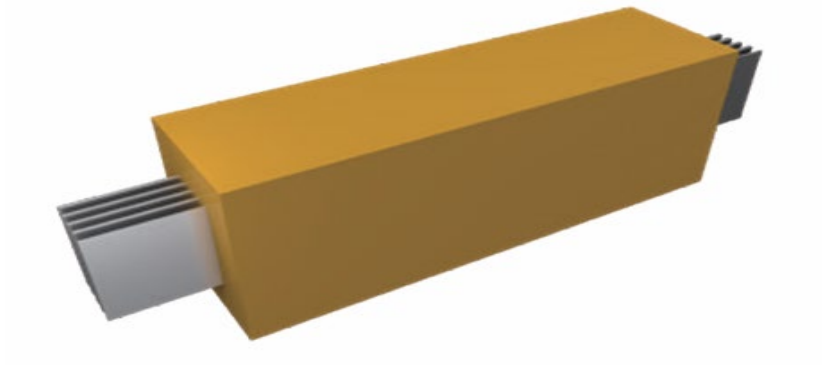
Busbar Trunking Systems :

LV Busway rating current :160A~7000A

Full range of LV busway, including AC and DC use. Widely used in data centers, utility facilities, commercial buildings and so on.

Comprising compact busway and epoxy busway.







Connection between busway and switchgear

Connection between series busway and low voltage switchgear includes flanged end busway, extending bar and end tap box.

Based upon low voltage switchgear outgoing arrangement, we will make customized design and guide instruction to optimise the electricity safety.

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Cable Tray:

- Steel Type
- Aluminum Alloy Type

Support System

- Steel Type
- Aluminum alloy Type





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03 LIFECYCLE SUPPORT

One-Stop Services for North American Projects

GreenGrid is establishing a localized service network in North America, including a U.S.-based spare parts warehouse, dedicated installation and maintenance teams, and a regional operations and maintenance (O&M) training center.

KEY SERVICE CAPABILITIES

- **Local Spare Parts Warehouse** – Faster parts availability and reduced downtime.
- **Local Installation & Maintenance Teams** – On-site installation, technical support, and maintenance services.
- **North American O&M Training Center** – Professional training and technical support for long-term operations.



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Local Presence. Faster Response. Lifecycle Support.



System Training



Preventive Maintenance



Troubleshooting & Repair

On-Site & Centralized Training

- On-site and centralized training programs
- 7 × 24 hours technical support

Regular Maintenance

- Scheduled inspections
- Routine maintenance

Emergency Support

- Rapid response for urgent repairs
- On-site standby support

Life Cycle Service & Maintenance



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