

An aerial photograph of a dense, lush green forest with many trees, serving as the background for the text.

WIDEN EDGE

THE LEADER OF ALL-SiC MICROGRID ENERGY STORAGE SOLUTIONS

www.widenedge.com

PROFILE

WIDEN EDGE

Powering From the Edge

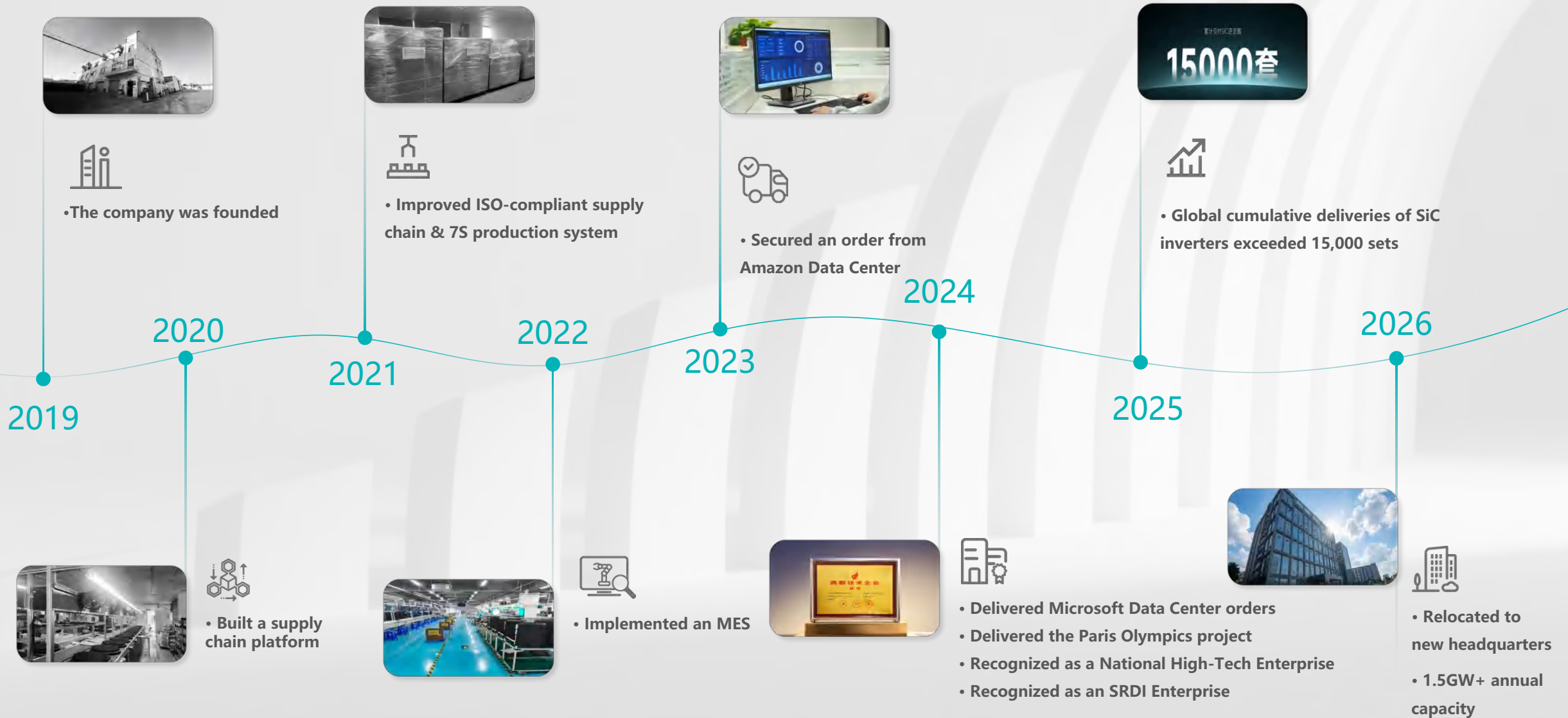
Founded in 2019, Shenzhen Widenedge Electric Co., Ltd. has a core team with over 15 years of experience in microgrid energy storage. As China's first national high-tech enterprise with a full range of SiC-based energy storage products, the company holds over 20 core patents and CE/UL certifications.

To accelerate global energy transition, established an international brand WidenEdge, focusing on in-depth development of international markets and product promotion. Leveraging the parent company's extensive track record of delivering over 15,000 SiC inverters worldwide. WidenEdge is committed to providing efficient and reliable power conversion products for microgrid, diesel-hybrid, and C&I applications around the world.

THE LEADER OF ALL-SiC MICROGRID ENERGY STORAGE SOLUTIONS

MILESTONE

WIDEN EDGE



VISION

Smarten Your Electricity

MISSION

The Leader of All-SiC Microgrid Energy Storage Solutions

VALUE

Driven by Innovation

Open Collaboration

Shared Growth

Co-Creating Value

WidenEdge Family



200+
Employees



40%
R&D Staffs



20+
Patents

Manufacturing Capacity

Annual Capacity

1.5GW+

Cumulative Deliveries (pcs)

15,000+

Global Presence

R&D & Manufacturing Center

Shenzhen

Germany

Aftersales Service

Netherlands

Service Center, Netherlands

Factory II, Germany

Global HQ, Shenzhen

Global Reach

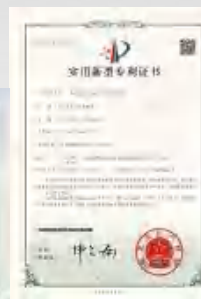
20+ Countries & Regions

Global Headquarters

Sogood Science Park, Bao'an District,
Shenzhen, Guangdong, 518126, China



Honor and Qualifications



Testing Platform

WIDENEDGE



R&D Lab



Load Testing Lab



Environmental Testing Lab

Delivery Capabilities

WIDEN EDGE

Digital Management

Fully deployed the MES to enable digital and transparent management across the entire production process.



Factory Audits

Passed rigorous factory audits by renowned German brands, demonstrating a world-class quality management system.



Delivery Standards

Compliant with standards of top 500 global companies.



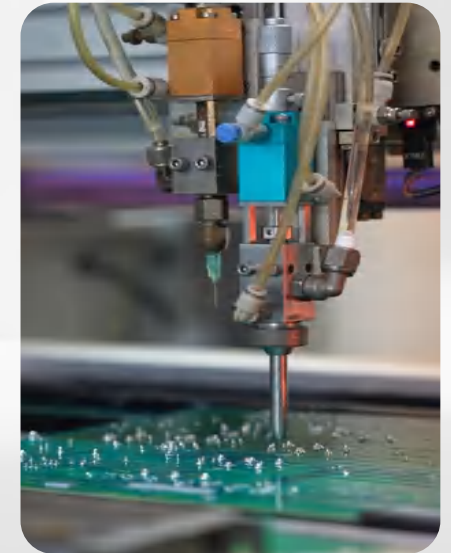
Product Testing

Established a comprehensive testing platform to ensure the outstanding performance of all outbound products.



Annual Capacity

Equipped with large-scale manufacturing capabilities, achieving an annual production capacity exceeding 1.5GW.



World's First Full-Series SiC-Based Microgrid Solutions From 30kW to 5MW



MGC Series



High
Protection



Dual DC



Grid-
Forming



High
Robustness



Unbalanced
Load Tolerance



Multi-condition
Adaptability

45kW-60kW

Industrial-Grade Protection

Core components feature an IP65 rating, protecting against dust and salt spray corrosion.

Dual DC Interfaces

Independent dual DC inputs support simultaneous PV and energy storage connections, adapting to complex charge/discharge scenarios.

Advanced Grid-Forming Control

VSM-based grid-forming technology provides virtual inertia to support grids and microgrids, featuring off-grid black start capabilities.

MGC-MK Series



High
Protection



Grid-
Forming



High
Robustness



Unbalance
Tolerance



Fast
Response



Multi-condition
Adaptability

100kW-180kW

Independent Phase Control

Supports 100% unbalanced loads, ensuring ultra-stable power output.

2.5x Overload Capacity

Capable of withstanding instantaneous current surges from high-power motors, welding machines, and other heavy-duty equipment.

Advanced Grid-Forming Control

VSM-based grid-forming technology provides virtual inertia to support grids and microgrids, featuring off-grid black start capabilities.

PV/DC



Stackable



Wide Voltage



High Protection



Multi-Protection

15kW

Flexible Expansion

Supports parallel operation up to 32 units.

Wide-Range DC Input

0-1000V wide voltage input, reliable in various extreme operating environments.

Industrial-Grade Protection

Core components feature an IP65 rating, providing strict defense against dust and salt spray corrosion.

Maximum Efficiency

Achieves a 99.1% peak efficiency, maximizing the utilization of energy value.

Hub



Smart Connectivity



High Compatibility



Multi-Protection



Fast Response



Smart O&M

Built-in Web Server supporting remote access and firmware OTA (Over-the-Air) updates.

Fast Dispatch

Supports Ethernet communication, ensuring grid command response times of under 10ms.

High Compatibility

Supports parallel clustering of up to 32 units, compatible with mainstream communication protocols and multiple BMS brands.

Coordinated Control

Capable to drive high-power switches to enable integrated dispatch across multiple energy sources.



MGC ESS Cabinet



Highly Adaptable



Modularity



Dust Resistance



Fast Response

600kW

Flexible Architecture

Optional single-string or multi-string on the DC side.

Modular Expansion

Modular design paired
Supports rapid capacity scaling

High-Level Protection

Industrial-grade dust-proof structure featuring an IP54 rating.

High Surge Capacity

Rated for 2160A instantaneous surge current, capable of driving heavy-duty loads.

Power Optimizer 2.5kW-100kW

WIDENEDGE



Modular



Adaptive



Lightweight



High Compatibility



Off-Grid Applications

WIDEN EDGE



Remote Electrification



Field Construction Site



Mining Power



Agricultural Irrigation



Island Off-Grid



Outdoor Film Production

Weak Grid Applications



Rural Power Grids



Asia-Africa Microgrid



Island Microgrid



Post-Disaster Recovery



Mining Microgrid



Tourist Resorts & Scenic Areas

Grid-Connected Applications



Industrial Parks (Peak Shaving)



EV Charging Stations



Hospitals



Energy Trading



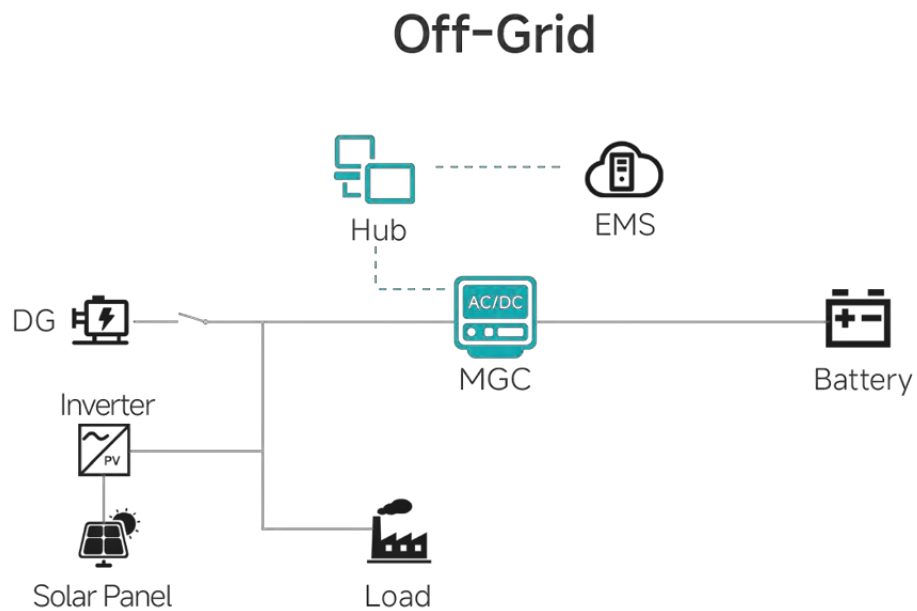
Data Centers



Commercial Centers

Off-Grid Solution

WIDENEDGE



01

3P4W Transformerless Design

02

100% Unbalanced Load Support

03

Millisecond Dynamic Load Response

04

IP65-Rated Core Components

05

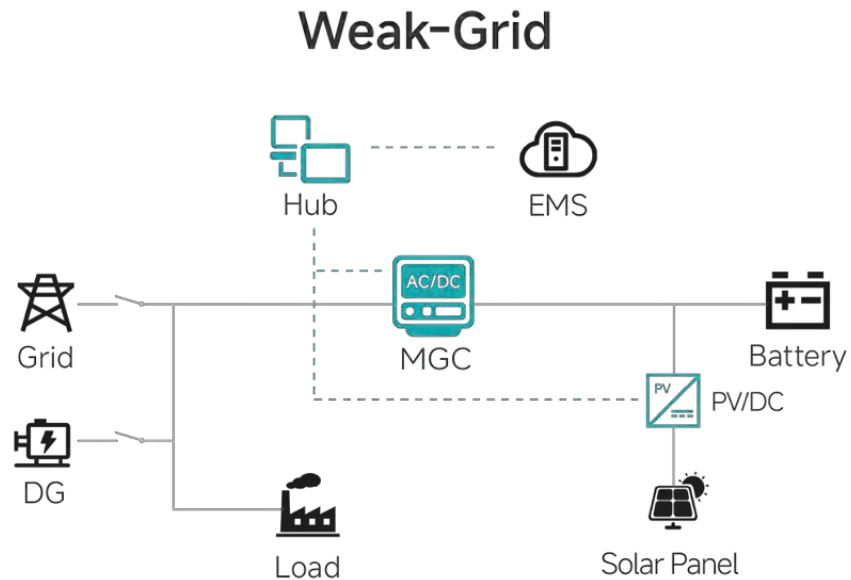
Up to 32 Units in Parallel

06

Integrated V/I Sampling for Real-Time Load Monitoring

Weak-Grid Solution

WIDENEDGE



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3P4W Transformerless Design

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100% Unbalanced Load Support

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Millisecond Dynamic Load Response

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IP65-Rated Core Components

05

Up to 32 Units in Parallel

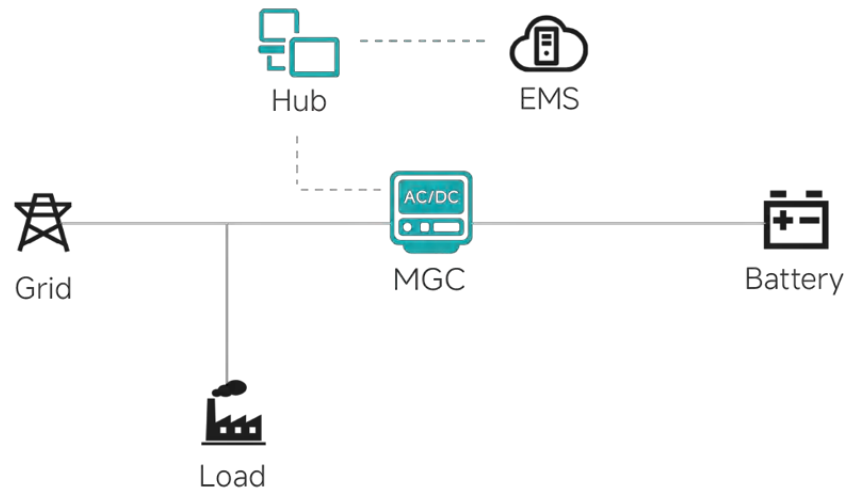
06

Universal Inverter Compatibility

Grid-Connected Solution

WIDENEDGE

Grid-Connected



01

3P4W Transformerless Design

02

100% Unbalanced Load Support

03

Millisecond Dynamic Load Response

04

Seamless Switching

05

Up to 32 Units in Parallel

06

Integrated V/I Sampling for Real-Time Load Monitoring

Pre-Sales Service

Focusing on customized solutions, we precisely meet clients' energy needs through professional design, solution delivery, and training.



Microgrid & ESS Solutions

Providing microgrid and energy storage solutions, covering off-grid, weak grid, and grid-connected scenarios.



Online & Offline Engagement

Offering customized technical support tailored to local market characteristics and specific project conditions. Our footprint has expanded to 20+ countries and regions over the past 3 years.

After-Sales Service

Relying on our service centers, we provide installation guidance, continuous technical support, and on-site O&M to comprehensively ensure the long-term, stable operation of your systems.



Service Center



Installation
Guide



Customer
Satisfaction



Technical
Support



Contact Us
info@widenedge.com

Case Study



UK

Due to the addition of multiple DC fast chargers on-site, the existing transformer lacked sufficient capacity. An energy storage system (ESS) was deployed to provide capacity expansion and ensure reliable power support.

Date: Dec 2022

ESS: 30 kW / 90 kWh

Specification: 5ft Container

Case Study



Belize

The resort initially relied solely on diesel generators. Due to soaring fuel costs, logistical challenges, and environmental concerns, a solar PV system was integrated to maximize solar energy utilization, successfully achieving a 100% replacement of the local diesel gensets.

Date: Jul 2021

Diesel Genset: 300 kVA

PV: 600 kWp

ESS: 500 kW / 540 kWh



Madagascar

This is an island microgrid project designed with a 2-hour backup capacity. Due to local grid instability, the system seamlessly transitions to off-grid mode during power outages, with diesel generators serving as the ultimate backup for prolonged grid failures.

Date: Aug 2025

Diesel Genset: 500 kVA

ESS: 450 kW / 800 kWh



Somalia

The school previously relied on diesel generators for its power supply. A solar-plus-storage system was subsequently integrated, with the diesel generator retained to operate solely as a backup when battery reserves are depleted.

Date: Jul 2022

ESS: 50 kW / 100 kWh

Diesel Genset: 50 kVA



Zimbabwe

A UK bank project in Zimbabwe. To counter frequent power outages caused by local grid instability, an integrated PV-Diesel-ESS microgrid system was deployed. The system's control logic prioritizes solar power, followed by energy storage, utilizing the utility grid or diesel generators only as a final backup to ensure continuous load support.

Date: Mar 2021

Diesel Genset: 500 kVA

PV: 600 kWp

ESS: 500 kW / 1.2 MWh

THANKS



0755-23018130



info@widenedge.com



en.widenedge.com



Sogood Science Park, Bao'an District, Shenzhen,
Guangdong, 518126, China