

Company Profile

— Integrated Energy Storage Products & System Solutions

National High-Tech Enterprise · Guangdong Contract-Honoring & Credit-Worthy Enterprise · Equipment Manufacturer

From 1.2 kW power modules to 750 kVA storage systems — in-house design, flexible customization, dependable delivery

CLEAN ENERGY

SUSTAINABLE

FUTURE

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COMPANY PROFILE 2026

Who we are, what we build and where it runs —
six chapters on one source manufacturer.

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Company Overview

Founded in Shenzhen in 2019,

focused on storage and power systems.

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2019

Founded

20
+ yrs

Team experience

8
lines

Product lines

999
+

Projects delivered

Focused on energy storage & power system solutions

IMAXPWR was founded in 2019 and is headquartered in Shenzhen. A National High-Tech Enterprise and a Guangdong Contract-Honoring & Credit-Worthy Enterprise, the company designs its own PCS, bidirectional DC/DC converters, MPPT, STS, EMS and battery cabinet systems, and supplies integrated products and solutions for C&I storage, distribution transformer-area storage, microgrids and PV+storage+charging projects.

Source manufacturer

In-house power stages, 1.2 kW – 750 kVA coverage

End-to-end delivery

Design · manufacturing · integration · O&M, one chain

Custom engineering

OEM / ODM support, system-level design for complex C&I and microgrid sites

R&D · Production · Service

Technology at the core,
manufacturing as the base.

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01

In-house power conversion

The core team brings 20+ years in power electronics; full-digital DSP control, resonant soft switching, grid-forming control and energy management.

DSP control

Soft switching

Grid-forming

02

Stable capacity & delivery

Prototype validation and pilot runs on our own engineering line; at volume we pool capacity with a mature supply chain to hold delivery dates.

Fast prototyping

Pilot runs

Capacity pooling

03

Full-lifecycle O&M

From scheme design, equipment selection and project delivery to full-lifecycle O&M, with OEM / ODM development and remote monitoring.

System design

Delivery

Managed O&M

Technology at the core, manufacturing as the base, service as the wings — one closed loop from R&D to production to service.

Four-Layer Portfolio

From power modules to site solutions

1.2 kW – 750 kVA

Full power range.

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01

Core power modules

PCS · Bidirectional DC/DC · MPPT · STS

1.2kW ~ 500kW

02

Standard storage systems

HV-DC · HV-AIO · MSP cabinet · Panshi ESS

15kW ~ 750kVA

03

Intelligent control layer

EMS · Smart combiner · Monitoring modules

Dispatch · Remote O&M

04

Site solutions

Storage · V2G charging · Specialty · Integrated

PV+ESS combos



Bidirectional AC/DC power modules



Energy storage PCS

Power Module Family

1.2kW ~ 500kW

Six families in one rack /
wall-mount format, hot-swap
and multi-unit parallel.

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Category	Power / capacity	Key features
Bidirectional AC/DC	1.2kW ~ 62.5kW	Isolated / non-isolated, grid + off-grid, V2G / V2L
Bidirectional DC/DC	3kW ~ 250kW	Wide battery voltage, seamless charge/discharge, parallel units
PV MPPT / DC-DC	6kW ~ 320kW	1–4 MPPT inputs, wall-mount and rack formats
STS static transfer	20kVA ~ 600kVA	Fast grid / island transfer, parallel switching units
HF rectifier / DC supply	9kW ~ 500kW	Programmable / specialty DC power supplies
Charging modules	5kW ~ 40kW	Unidirectional and V2G, AC/DC and DC/DC inputs

Total **~85** modules and modular supplies, 1.2 kW – 500 kW



Bidirectional DC/DC power modules

Standard rack and wall-mount chassis, hot-swap and parallel operation, so integrators match battery voltage and power class.

Standard Storage

and Four Solution Lines

4 series · ~20 variants

15 kW – 750 kVA.

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HV-DC

HV battery system

25 ~ 261kWh

Cabinet or rack LFP storage,
multi-cluster

HV-AIO

HV all-in-one

50 ~ 250kW

Battery + PCS + EMS in one
unit, plug and play

MSP

PV+storage cabinet

250 ~ 750kVA

Seamless grid/island transfer,
genset and PV

PANSHI

Panshi area storage

105 ~ 250kW

Peak shaving, voltage support,
backup

Total **~20** standard systems, 15 kW – 750 kVA

Four solution lines

01 Storage

Generation, grid, user side

02 Smart charging

High-power modules + V2G

03 Specialty power

Programmable / pulse

04 Integrated energy

PV+storage+diesel, +charging

Four Core Technologies

Built on:

power electronics · digital control

energy management algorithms

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01

Full-digital DSP control

Dual DSP + CPLD, fully digital loops;
stable across wide temperature, voltage
and non-linear loads, remotely configured.

Digital loops · Remote setup

02

Resonant soft switching

Resonant soft switching cuts switching
loss and EMI, raising efficiency, power
density and device life.

Low loss · High efficiency

03

Grid-forming control

Generator-like behaviour: active voltage
and frequency regulation, black start,
parallel units, diesel sync.

Voltage support · Black start

04

Smart energy management

Forecast-based dispatch adjusts charging
against tariffs and load curves, balancing
economics and battery life.

Forecast · Arbitrage · Longer life

Intellectual Property

and Qualifications

30+ IP assets covering
power conversion, control
and system integration.

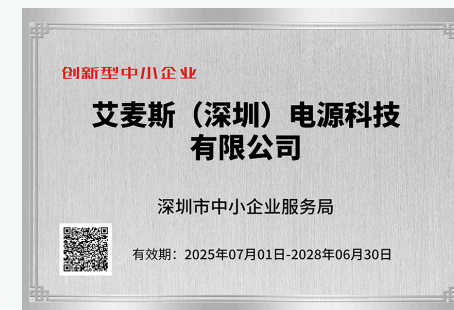
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National High-Tech Enterprise



Shenzhen Tech SME



Shenzhen Innovative SME

30
IP assets

Patents & software copyrights



IP coverage

- HF isolated bidirectional AC/DC conversion
- Bidirectional DC/DC, wide battery voltage
- Seamless grid / island mode transfer
- Multi-unit parallel operation in island mode
- Smart microgrid control
- High-power tower converters

- Guangdong Contract-Honoring & Credit-Worthy Enterprise
- National High-Tech Enterprise, Shenzhen Innovative Tech SME

Product Certification

and Standards Compliance

CE · IEC · UL

ISO 9001 / 14001

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CE

EU market access

IEC

IEC standards

UL

North America access

Standards

ISO 9001	ISO 14001	
EN 50549	G99	IEC 62109
IEC 62477	IEC 61000	
IEC 62116	IEC 61727	



ISO 9001 Quality Management · ISO 14001 Environmental Management

Systems and modules are assessed and certified to EU directives, IEC standards and UL requirements, covering safety, EMC and grid-connection performance.

Quality Assurance

Design validation · process control

factory testing — a closed loop.

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01

Design validation

Part design, thermal simulation, EMC pre-testing and life assessment happen in design, so problems stay on the drawing board.

Thermal sim.

EMC pre-test

Life test

02

Process control

SMT placement, 3D SPI, AOI and ten-zone nitrogen reflow; critical steps fully inspected, data traceable.

3D SPI

AOI

N2 reflow

03

Factory testing

Every unit runs performance, vibration, salt-spray, endurance and limit tests, plus EMC and grid-connection.

Salt spray

Vibration

Grid test

Helping customers succeed is what IMAXPWR is here for.

QUALITY DECLARATION

Domestic Volume Delivery

Bus fleets, transformer areas,
PV+storage+charging and C&I
storage — delivered in volume.

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Guangdong bus fleet, 625 kW / 1.7 MWh



22 × 241 kWh area ESS cabinets



30 × 120/180 kW PV control cabinets



30 × 500 kW PV+storage cabinets



36 × PV control cabinets



12 × 125 kW / 261 kWh systems



1.5 MW PV+storage cabinet



1.7 MWh ESS cabinet



3 MWh ESS cabinet

Global Footprint

From island microgrids to C&I storage, running across Asia, the Middle East, Africa, Europe and Latin America.

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South Asia PV+Storage Cabinets 3 × 500kW Indoor install, grid and island under one EMS 1.5 MW	Southeast Asia Island Microgrid 2MW / 4MWh Grid-forming PCS + LFP, genset start/stop, smoothing Diesel -72%	Europe Farm PV+Storage 500kW 1,000 kWh battery + 400 kW PCS for night loads 1,000 kWh	Africa C&I Storage 10 × 315kWh 150 kW systems in volume, peak shaving plus backup 10 units	Southeast Asia Park Storage 4 × 100kW Four 100 kW PCS in parallel per set, staged expansion 4 in parallel
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Operating revenue ↑ 99.3% · 99.3% island availability · 4.2-year payback · 72% less diesel

Ecosystem Partners

Deep in renewables and storage,
we build the ecosystem with
upstream and downstream partners.

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01

Utilities

Transformer-area and
distribution storage

02

Integrators

PCS, DC/DC and
EMS building blocks

03

Charging

High-power charging
modules and V2G

04

Manufacturing

Specialty and
regenerative supplies

05

Research

Joint work on power
conversion

Engagement models

OEM / ODM

Built to your brand, interfaces, power
class, protocol and labelling.

Joint solution delivery

We join front-end design and sizing,
delivering at system level with
integrators.

Spares & service

Spare parts, remote monitoring and on-
site service for the full lifecycle.



MISSION · VISION

Competitive energy storage products and solutions for the world

A trusted global technology company, driven by innovation, creating more value for customers.

Helping customers succeed is the ultimate goal of everyone at IMAXPWR.

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