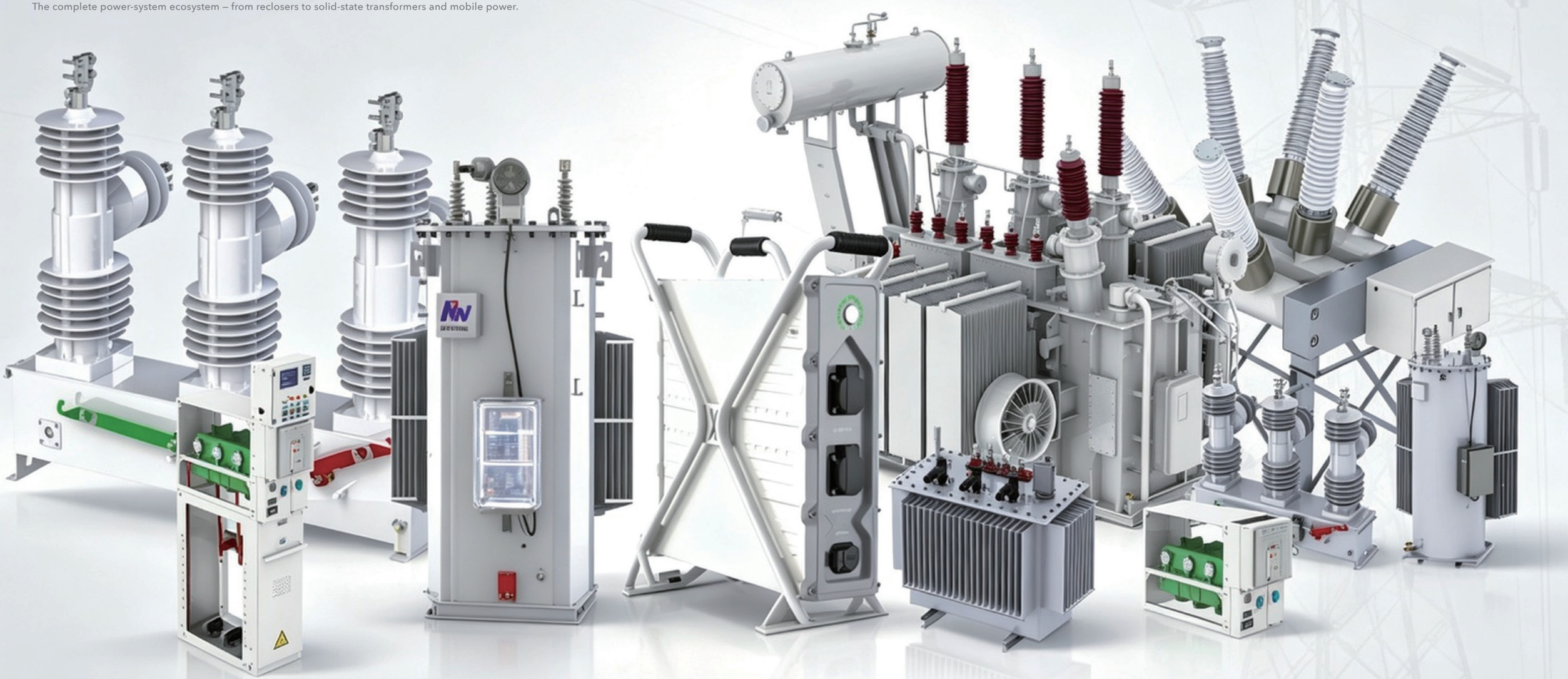
ROCKWILL

ROCKWILL · VZIMAN · PINGALAX

Powering the Grid of Tomorrow

The complete power-system ecosystem — from reclosers to solid-state transformers and mobile power.



THE BUILDER BEHIND THE ECOSYSTEM

Chen Chengming

Founder & Chairman · Rockwill / Vziman · Co-founder, Chongqing Pingalax Semiconductor Research Institute



Chen Chengming — Founder & Chairman

"I started from zero — and we never stop. We aim to lead: the first to bring things to market, not the fastest to copy them."

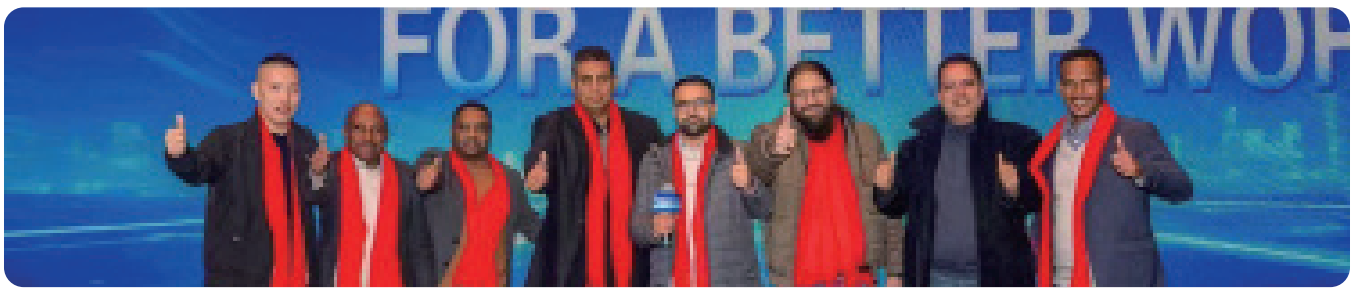
I never went to a famous university. I studied mechanical design at a vocational college, and mechanical engineering is still the root of everything I do. English, design and the technologies behind the products — I taught them to myself, one book and one problem at a time, learning while I worked.

In 2003 I took a job on the shop floor of a small electrical-equipment factory in Yueqing. Life pushed hard, and in time I had to start a business of my own just to keep going. That business grew into Rockwill.

Today Rockwill's industrial chain and the talent chain around Chongqing Pingchuang come together in a semiconductor-and-applications high-tech company. We target a leading position — not catching up, but setting the pace: the solid-state transformer for the next-generation distribution grid, and an industrial digital-ecosystem platform for the AI era.

My job now is to close the loop — chips, materials, terminal applications and the industrial chain — so the group can survive the cycles it cannot predict.

Start from zero. Stay close to the machine. Build the next thing before the market asks for it.



A BUILDER'S TIMELINE

From one workshop to multiple brands

From knocking on the market's door with technology, to innovation-driven growth – starting in Yueqing, with a long-term focus on intelligent T&D and system-level solutions.

2004

Starting from Zero

The Starting Point

Mechanical engineering was the footing; after a vocational-college diploma in mechanical design, I taught myself English, design and engineering technology. In 2003 I took a job at a small electrical-equipment factory in Yueqing and, driven by necessity, went on to build my own business.

Mastering a craft under pressure · relentless learning

2006

Setting Out with Technology

The Leap

The first private enterprise in China to custom-develop a 35 kV indoor SF6 load-break switch for a leading Turkish company – filling a domestic gap that Western suppliers had long held.

Technology breakthrough · first to market

2008–2014

Founded Rockwill · Rockwill Automation

The Path

In 2009 we pivoted decisively to overseas markets, breaking through Western technical barriers on multiple products and filling domestic gaps. Output exceeded RMB 100 million in four years; the company later moved to Lishui.

Iteration capability · a proven path

2019

Chongqing Pingalax Semiconductor

Closing the Loop

Joined forces with Professor Chen of Chongqing University to found Pingalax Semiconductor, laying out the SST. A closed loop of chips + materials + terminal applications + industry chain, with an industrial digital ecosystem platform – built for cross-cycle resilience.

Chips · Materials · Terminal applications · Industry chain

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The whole energy value chain, in one brochure

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Who we are

Rockwill is not a holding company with unrelated assets. It is a vertically integrated energy-technology group in which three specialist brands hand one technology to the next – from the semiconductor inside a switching device, to the device on the grid, to the power station that charges a vehicle.



ROCKWILL

ROCKWILL ELECTRIC

Founded 2008 · Wenzhou

Head Department
Smart T&D equipment from 12 kV to 550 kV – reclosers, regulators, breakers, switchgear, transformers and prefabricated substations, delivered to 130+ countries.



VZiMAN

VZIMAN POWER

Founded 2022 · Wenzhou

solid-state-transformer technology – the power-device core that powers next-generation grid and mobile products.



PINGALAX

PINGALAX

Founded 2019 · Chongqing

Semiconductor packaging, solid-state mobile power (PowerGiant) and EV charging – DC fast chargers, AC chargers and the PINGALAX Cloud operating platform.

WHY THIS MARKET, WHY NOW

01 New-energy grid connection, urban distribution networks and overseas infrastructure are together driving the upgrade to intelligent operation and maintenance.

02 High-end medium-voltage intelligent equipment and power materials sit behind real technology and intellectual-property barriers.

03 We are not making a single product – we are entering the growth market where global distribution-grid upgrade meets domestic substitution.

Chips & devices Layer 1 › **Grid equipment** Layer 2 › **SST & mobile power** Layer 3 › **Charging hardware** Layer 4 › **Cloud platform** Layer 5

Scale, standards and recognition



400,000 m²

manufacturing campus – the group's combined production base





Pingalax R&D & engineering team

600+

Employees Across Three Companies

OUR CUSTOMERS

Actively expanding our customer base – partnering with leading clients and building stable, long-term business relationships.

Independent Market Capability

Independent Technology Capability

Complete Industry Chain & Industrialization Capability

Selected customers across solar, mobility, automotive, power equipment and energy storage.

PART 01

01

Smart transmission & distribution

The foundation of the group: medium- and high-voltage equipment that protects grids, controls power quality and connects new energy — engineered to IEC and IEEE standards and proven on five continents.

1. **Auto-reclosers & sectionalizers**
2. **Voltage regulators**
3. **SF6 / vacuum / clean-air breakers**
4. **Switchgear & ring main units**
5. **Power & distribution transformers**
6. **Prefabricated substations**
7. **Distribution automation & SCADA**



Rockwill assembly workshop and production lines — company photograph. 12–550 kV portfolio · KEMA / DNV type tested · distribution automation ready

WHO IT IS FOR

Built for every grid environment



Electric utilities

Distribution automation, fault isolation and voltage-quality management on public networks.



IPP & EPC contractors

Equipment packages for generation, substations and grid-connection projects.



Industrial & mining

Reliable power for factories, mines, ports and plants with weak or isolated grids.



New-energy & charging

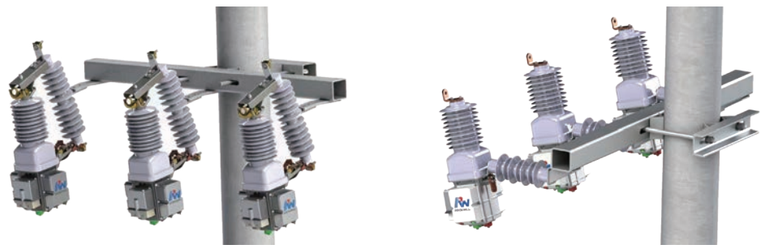
Switchgear, substations, SST and charging hardware for PV, storage and fast-charging hubs.



Overseas distributors

Certified, localisable products with long-term OEM, JV and after-sales partnership.

12-550 kV	200+	130+
EQUIPMENT VOLTAGE RANGE	OVERSEAS PARTNERS	COUNTRIES SERVED





RCW series outdoor auto-recloser with smart controller

04 · FLAGSHIP PRODUCT

RCW Series Auto Recloser

A 3.3–52 kV outdoor vacuum circuit breaker with an integrated smart controller. It detects a transient fault, opens, waits and recloses automatically — restoring power in seconds for temporary faults and isolating permanent ones before they cascade, across the full medium-voltage range.

China's first high-precision, wide-range, four-dimensional-architecture medium-voltage recloser — filling the domestic gap, with a world-first mechanical-electrical linked manual-close blocking scheme.

We do not follow technology — we make it. Native sensing, fast location, virtual sectionalizing and high-impedance fault detection put RCW on the same competitive level as NOJA Power, Eaton and ABB.

Fast, accurate protection

Sub-40 ms response; inverse-time and sequence protection; multi-shot auto-reclosing with dead-time control.

Reliable interruption

Vacuum interrupter, magnetic / spring mechanism, 10,000 electrical and 30,000 mechanical operations.

Smart controller

Local + remote control, fault recording, harmonics / PQ monitoring, IEC 60870-5-104, Modbus, DNP3.

Built for the field

IP67 stainless enclosure, −50 °C to +70 °C, corrosion and condensation resistant.

Typical applications

Rural feeders · overhead lines · substations · mining & industrial networks · renewable grid connection | IEC 62271-111 · IEEE C37.60 · IEC

3.3–52 kV
Full voltage coverage

Mechanical-Electrical Interlock
World-first manual-close blocking

KEMA Certified
Independent type test

RCW Recloser

Intelligent self-healing distribution terminal — benchmarked against **NOJA, Eaton, ABB**.

0.5A–16kA	≤20 ms	2 s	≥85%
Current range	Fault location	Self-healing	Less outage area

1 Embedded Millisecond-level Impedance Fault Location

Impedance algorithm in **firmware** — on-site, no master station or communication.

0.01 km resolution · 0.01 Ω resolution · Fault location as protection

RCW ≤20 ms
Trip element 10–30 ms

2 2-second Virtual Sectionalization Self-healing (FDIR / FLISR)

Device-level topology reconfiguration — no optical fiber or physical switches.

±10 ms accuracy · 128 points / cycle · 32 fault profiles

≥85% outage area reduced

3 Native HIF Multi-criteria Weighted Detection

Pure firmware, 7-dim weighted fusion — no extra hardware, comm or cloud.

V0 over-limit · I0 over-limit · 3rd harmonic · 3-phase distortion · Peak asymmetry · Area asymmetry · Cycle correlation

Trip · Alarm-only · Blocked
Confirmed in <100 ms



New Generation Recloser

NOJA Power® Smart Distribution & Automation Solutions Brand
EATON Global Power Management & Distribution Brand
ROCKWILL
RCW Smart Self-Healing Distribution Terminal
Core Benchmark Position
ABB Global Power & Automation Technology Brand

RCW vs Competitors — Native Firmware Advantage

Capability	NOJA	Eaton	ABB	SEL	RCW
Fault location	IEC 61499 P2P comm	AI detection	Sensor fusion	—	Onboard firmware
Self-healing	Ring via communication	—	—	—	Device-level, 2 s
HIF detection	Optional CT hardware	Edge + cloud	—	Substation tuning	Pure firmware
Dependence	Communication	Cloud training	Sensors	Long tuning	None — all in firmware

From technology follower to technology innovator — entering mainstream global first-tier competition through native sensing, rapid location, self-healing and HIF detection.



RVR series step-voltage regulator on site

05 · POWER QUALITY

RVR Step-Voltage Regulator

Rockwill Voltage Regulator Step-Voltage Regulator

A 5–38 kV on-load tap-changing regulator that keeps customer voltage inside statutory limits on long rural feeders, weak grids and high-PV networks — automatically, 24 hours a day, without interrupting supply.

50–70 % lower cost than SEL and other Western leaders – same performance, full lifecycle value.

±10 % in 32 steps

5/8 % per step, reversible — corrects both over- and under-voltage at the same location.

99.4 % one-time pass rate

Produced under a strict quality system with KEMA / DNV type tests and full traceability.

−40 °C to +65 °C

Sealed tank, condensation and corrosion resistant, built for extreme climates.

Smart by default

Independent or linked operation, remote monitoring, SCADA and distribution-automation ready.

Typical applications

Long rural feeders · weak grids · high-PV networks · industrial parks · coastal & extreme-cold networks | IEC 60076-8 · IEC 60076-57-1202 · IEC 60076-2 · KEMA / DNV type tested

RVR / RWT · FULL-LIFECYCLE ASSET

Turning the “regulator” into a full-lifecycle intelligent asset

From communication, control and mechanical life to O&M cost – a complete value chain, benchmarked against the international mainstream.

Communication

Four protocols native & parallel – gateway-free.

Control

Three directional settings; high-ratio distributed generation.

Group control

Three-phase bank, zero add-on options.

O&M

2 s waveform / 130,000 SOE; upgrade without reconfiguration.

FULL-LIFECYCLE VALUE

Million-level	20 years	No reconfiguration	↓ 30 %
MECHANICAL OPERATIONS	MAINTENANCE-FREE	ON UPGRADE	OVERALL COST

A full-stack platform benchmarked against the international mainstream – performance + O&M + lifecycle cost, from communication and control through mechanical life and maintenance.



Standards & testing

Designed and tested to IEC 60076-8, IEC 60076-57-1202 and IEC 60076-2, with KEMA / DNV type-test reports, routine tests and full production traceability.



RVR · FIELD-PROVEN

Proven in the field



RUSSIA · Extreme-cold field service

RVR line regulators in service for more than three years at ambient temperatures down to −45 °C, holding customer voltage inside statutory limits on long rural feeders through repeated severe winters.



ZANZIBAR · Right-sizing the regulator

A 13-tap, 4 %-step 33 kV regulator drove 420 V night-time overvoltage at a precision plant – the coarse step exceeded the 2.5 % tolerance. Immediate fix: recenter to 32.7 kV and widen LV limits to 370–415 V. The 32-tap RVR-1 (0.625 %/step) removes the dead zone at the hardware level.



BANGLADESH · 263 units, 33 kV grid

Since June 2024, 263 RVR-1 32-step 33 kV regulators have run in the national MV distribution upgrade – holding output within ±1 % across ±20 % input swings, engineered for 40 °C heat, humidity and dust, and recognized by the Bangladesh Power Development Board.

3+ years	5-38 kV	32 steps	24 / 7
SERVICE AT −45 °C	RVR LINE CLASS	±10 % REGULATION	AUTOMATIC, UNMANNED

Also proven worldwide – one regulator platform



EL SALVADOR – 24 × 14.4 kV RVR-1; ±0.8 % across ±16 % swings



YINCHUAN – LSVR lifts 180 V irrigation feeders back to 220 V



50+ COUNTRIES – utilities, industry, renewals; IEC / IEEE type-tested

NEW MATERIALS · NANO-COPPER PASTE

Nano-Copper Paste



Psemic Nano Copper Paste Series

Syringe: seCure-BC1113

Jar: seCure-BC0323 · 100 g net weight

Technical Principle · Low-temp, Low-pressure Sintering: Copper Replacing Silver

1 Nano Copper Paste	2 Low-temp, Low-pressure	3 Cu–Cu Metallurgical Interconnect
Bonding at 260°C	**200°C · 5 MPa**	**Heat dissipation improved**
High thermal & electrical conductivity	Sintering completed in 5 min	10%–20%

Key Breakthrough: Special additives actively remove the copper oxide layer during sintering, overcoming copper's oxidation challenge. By contrast, silver paste oxidizes readily, requires complex coating, and is costly.

Key Technical Specs · Pingalax vs. Competitors

Metric	Pingalax	Competitors
Min. sintering temperature	200°C	>220°C
Min. sintering pressure	5 MPa	>10 MPa
Substrate oxidation tolerance	Moderate oxidation	No oxidation allowed
Sintering strength	60 MPa	50 MPa
Sintering time	5 min	10 min



Media Coverage · World's First Large-scale In-vehicle Deployment

Chongqing Daily, October 29, 2025 — world's first large-scale in-vehicle application.

Core Partners (Selected)

BOSCH · HYUNDAI · PORSCHE · Panasonic 松下电器 · 广汽集团 GAC GROUP · WULING · BYD · CHANGAN · NIO 蔚来 · SERES · SUNGRG 朗光电源 · infineon · ROHM · 华润微电子 CR MICRO · HUAWEI

Four Major Application Scenarios · Full-chain Packaging Process

New Energy Vehicles | Photovoltaic & Energy Storage | Low-altitude Aircraft | AI Servers

Full-chain coverage: copper wire bonding · chip-level paste · system-level large-area paste · all-copper interconnect packaging

Note: Power semiconductor modules for new energy vehicles are already in mass delivery.

Industrialization & Customer Validation

First in Mass Vehicle Deployment
World's first large-scale adoption at leading automakers

IATF 16949 Certified
Automotive-grade quality management system

7,000 m² Plant · 2 t/month
Nano copper paste line already in operation

20+ OEMs / Tier 1 Qualified
Validated and introduced by leading enterprises

07 Mobile industrial power

Portable, solid-state power for construction sites, events and off-grid work.



High-Performance **User-Friendly** **Affordable**

High Safety

UL2743 Thermal Runaway Test

The First Product in the World to Pass the Test.

PowerGiant PG3600

Silent, portable, jobsite-ready power – the battery generator replacing diesel.



1. **Battery**
   3,600 Wh automotive-grade NCA
2. **Power**
   3,600 W continuous · 7,000 W peak
3. **Three-phase ready**
   via PG3600-Link portable station
4. **Jobsite tough**
   IP54, reinforced X-frame
5. **Cloud connected**
   PG3600 app, status, control, OTA

Options & Accessories


Trolley


Backpack


Weather cover


RCD variants

Operating Environments


High humidity


−30°C cold


+55°C heat


High altitude

PG3600 vs. the Only Rival – Germany's Instagrid

PG3600's only comparable competitor is Germany's Instagrid; X100 has no competitor today.

COMPARISON Specs at a Glance	 **PINGALAX PG3600** Our Product · PINGALAX One of only two in mass production worldwide · Four int'l design awards	 **Instagrid (GO / ONE)** German Competitor Only Comparable in Class Widely used in European industrial B2B
Battery Capacity	2.3 kWh	2.1 kWh
Charge Time (0□100%)	Full in 2.3 h	3 h (to 80% only)
Max. Charging Power	1,000–1,200 W	400–960 W
Rated / Peak Power	3.6 kW / 20 kW	3.6 kW / 18 kW
Configuration & Customization	Dual configs: standard & RCD Custom housing available	Single standard configuration
Certifications & Awards	iF · Red Dot · MUSE · EPDA 4 international awards	European environmental standards · B2B adoption
Market Price	More competitive price Outstanding value	US $4,250 · Europe €4,500

~20% Faster Charging
2.3 h to full · rival 3 h to only 80%

20 kW Peak Power
Higher than the rival's 18 kW

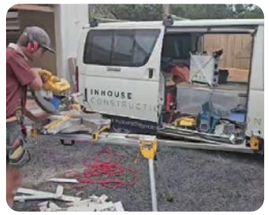
Dual Configs · Customizable
Flexible fit for diverse scenarios

Four Int'l Design Awards
Better price · outstanding value

Anywhere the grid is not enough

Application & Cases


Film & broadcast


Mobile service vans


Mechanical Restructuring


Emergency & disaster

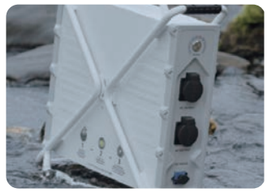

Municipal Maintenance


Equipment Maintenance


Building Construction


Desert Construction

Harsh-environment validated


High humidity


−30 °C cold


+55 °C heat


High altitude

Already Partnering with Global Industrial Giants

Key Partners (Selected)

JCB · BOSCH · WACKER NEUSON · HYUNDAI

Total cost of ownership

No fuel, no engine maintenance and near-silent operation: across a typical three-year rental or construction workload, the PG3600 materially lowers total cost of ownership versus an equivalent diesel generator. (Detailed TCO comparison available on request – figures to be confirmed for each market.)

Transitioning to the SST

From the dumb pipe to a smart, software-defined power network.

What an SST Changes

01

Redefines the grid

From replacing traditional AC grid equipment to defining the next-generation smart energy network.

02

Replaces transformers

The SST will fully replace traditional transformers in AC/DC hybrid distribution networks.

03

Ends passive expansion

Facing massive distributed power, the SST is the optimal way to evolve the grid.

We are developing the solid-state transformer.

The SST turns passive grid hardware into smart, software-defined power — proven, mass-produced and ready to scale.

From a conventional transformer to a smart energy network

Conventional transformer "dumb pipe"

One-way transmission · passive capacity expansion · no intelligence

→

Smart energy network

Programmable · dispatchable · bidirectional power flow



Why SST, Why Now

Facing massive distributed power and the AI-era grid, the SST is the optimal way to evolve from a dumb pipe to a smart energy network — and we made the decision early.

01

Strategic Positioning

Founded Pingalax Semiconductor in 2019 to replace traditional AC grid equipment, while also covering DC grid applications — so the future market adopts the new products to the fullest.

02

Technology Accumulation

Developed for grid needs: nano-copper paste, next-generation device chips, and low-voltage SST mass production.

03

Future Direction

Now developing new medium- and high-voltage SST products, completing full low-to-high-voltage coverage.

"We are not waiting for the grid to ask for the SST. We are building the chips, materials and systems now — so that when the market turns, the technology is already proven and in mass production."

Chen Chengming — Founder & Chairman, Rockwill · Co-founder, Chongqing Pingalax Semiconductor



What an SST Changes



Metric	Line-frequency transformer	Solid-state transformer (SST)
Operating frequency	50 Hz fixed	Tens to hundreds of kHz, adjustable
Conversion	Voltage only	AC/DC/AC full-mode conversion
Response speed	Seconds	Microseconds
Power flow	One-way	Two-way
Intelligence	None	Software-defined, remotely regulated
Size & weight	Baseline	50–80% smaller
Efficiency	~95%	98–99%

Why the traditional power architecture fails

SPACE

Bulky footprint – large and heavy

EFFICIENCY

8–12% losses from multi-stage conversion

DYNAMIC RESPONSE

Seconds vs. μs – can't keep up with AI loads

The SST: Ready for the 800V AI Factory

NVIDIA has defined 800V DC power distribution as the next-generation architecture for AI factories. The SST is the core equipment enabling it – and Rockwill's full-stack SiC capabilities make it a reality.

Full-stack core technologies create differentiated competitive advantages

Competitive Advantage	Detailed Description	Differentiation
SiC Full-Stack Capability	One of the few companies in China with integrated capabilities in chip design + driver IC + packaging materials + packaging process + system application	★★★★★ Extremely Rare
Nano-Copper Sintering	World's first in-vehicle deployment; built China's first automotive-grade nano-copper sintering packaging production line	★★★★★ Extremely Rare
PowerGiant 3600	Off-grid SST portable mobile industrial power station; winner of the 2026 iF Design Award	★★★★ Industry Leader
Intellectual Property Barrier	400+ intellectual property assets of various types, including approximately 170+ invention patents	★★★★ Deep Moat
SiC Power Supply	Scaled mass production of AC/DC 40/60 kW charging modules, laying the foundation for SST power conversion	★★★★ Domestic Leader
V2G Bidirectional Conversion	Developed and mass-produced V2G SiC power modules, laying the foundation for grid-side bidirectional technology	★★★★ Domestic Leader
CHB Cascading Technology	Developed and mass-produced industrial mobile power stations based on CHB cascading, laying the foundation for SST cascading	★★★★ Global Leader

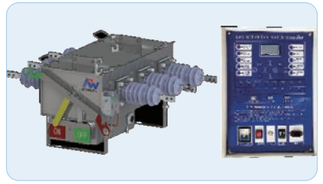
FULL-STACK READINESS

Chips & Packaging | Power Modules | Systems | Cloud | Grid

From chips and packaging to power modules, systems and the grid – every layer of the SST is proven and in mass production.

We have made every preparation. We are ready to scale the SST.

Six product families, one supplier



Load-break & sectionalizing

SF6 / vacuum LBS, auto-reclosers, sectionalizers, disconnectors



Circuit breakers

Live- & dead-tank SF6, vacuum and clean-air breakers to 550 kV



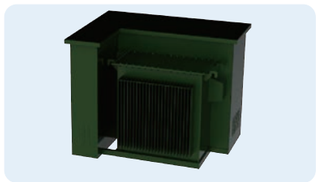
Switchgear & RMUs

KYN metal-clad, fixed / withdrawable, RMUs and pure-air switchgear



Transformers

Oil and dry-type distribution transformers and specialised units



Prefabricated substations

Compact substations, box-type and E-house solutions



Automation & accessories

SCADA, controllers, CT/VT, metering units and switch accessories

One quality system

IEC / IEEE design, CNAS lab, KEMA type tests

One controller family

Common protection, comms and SCADA platform

One delivery scope

From single panels to complete substations

One after-sales chain

Spares, training and FAT across all families

Common controllers, protocols and quality systems – simplifying specification, spares and training.

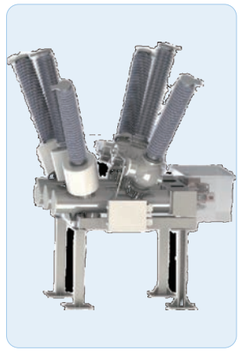
Switchgear & breakers



Live-tank SF6 breaker



145 kV clean-air VCB



Hybrid GIS switchgear



Capswitch / RMU



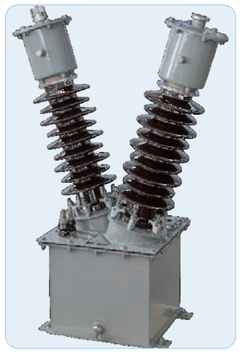
Pure-air switchgear



LV distribution panel



Metering unit

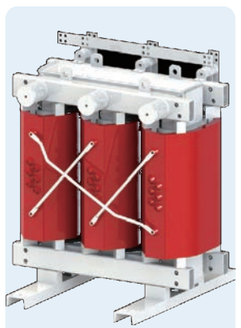


CT / VT units

Interruption technology for every network

SF6, vacuum and clean-air platforms – live-tank, dead-tank, hybrid GIS and metal-clad switchgear, with common controllers and type-tested interruption up to 145 kV.

Transformers, substations & automation



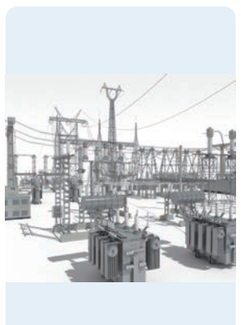
Dry-type transformer



Oil distribution transformer



Prefabricated substation



Substation engineering



SCADA one-line diagram



Control & metering panel



Pole-mounted recloser



Regulator platform

From equipment to complete substations

Oil and dry-type transformers, prefabricated substations and SCADA / distribution automation – engineered, factory-tested and commissioned as one package.

08

Premium & high-voltage lines

The high end of the Rockwill portfolio, engineered for utilities, EPCs and heavy industry – from 40.5 kV distribution to 550 kV EHV, with UHV-class designs to 1,200 kV in the product range.



EHV substation with dead-tank circuit breakers – engineered to IEC / IEEE and type tested for extreme climates.

High-voltage & EHV switchgear

Dead-tank breakers 40.5-550 kV; hybrid and full GIS; the complete SF6-free matrix.

SF6-free ring main units

RMR, REC and RAR sealed-tank family, 6-40.5 kV; metal-clad and C-GIS line-up.

Specialty transformers

Nuclear, traction, H-bridge, ice-melting, converter and capacitor units.

Substations & distribution

Prefabricated substations, pad-mount, earthing and amorphous-core transformers.

Power transformers & UHV

10 kV utility units to 1,000 kV UHV converter-station autotransformers.

Industrial, rectifier & furnace

Duty-built units for metallurgy, electrolysis, traction, marine and DC supply.

IEC / IEEE type tested · SF6-free, F-gas ready, GWP 0 dry-air option · -45 C extreme-climate variants · engineered, factory tested and commissioned as one package

High-voltage & EHV switchgear

Sealed dead-tank breakers and SF6-free platforms, 40.5 kV to 550 kV

The premium end of the Rockwill interruption range: sealed dead-tank circuit breakers that scale class by class, hybrid and full GIS arrangements, and a complete SF6-free matrix – engineered to IEC and IEEE, type tested for extreme climates and supplied to utilities and EPCs worldwide.

40.5–66 kV	69–88 kV	123–145 kV	225–252 kV	330–420 kV	550 kV
dead-tank class	dead-tank class	dead-tank class	dead-tank class	dead-tank class	dead-tank class



550 kV dead-tank breaker, EHV substation



330–420 kV dead-tank platform



225–252 kV dead-tank breaker



123–145 kV dead-tank breaker



69–88 kV three-pole dead-tank



40.5–66 kV dead-tank breaker

One platform, every interruption technology

Live-tank (LTB) and dead-tank (DTB) breakers · hybrid H-GIS and full GIS on eco gas · air-insulated load-break switches (A-LBS) · Eco-GCB compressed-air interrupters. The SF6-free matrix spans dry and compressed air, g3 and nitrogen mixtures, solid insulation and vacuum; UHV-class dead-tank designs to 1,200 kV are available in the product range.

IEC / IEEE type tested · SF6-free and F-gas ready, GWP 0 dry-air option · −45 °C extreme-climate variants · common controllers, SCADA and distribution automation

Metal-enclosed & SF6-free ring main units

RMR · REC · RAR – one sealed-tank family from 6 kV to 40.5 kV

	RMR platform	REC flagship	RAR rapid-install
Insulating gas	SF6 (GWP 23,900); N2 / g3 option	Pure air / nitrogen, sealed for life	Dry air, GWP 0
Voltage	12 / 24 / 36 kV	12 – 38.5 kV	6 – 24 kV
Busbar current	630 A (12 / 24 kV)	630 / 1,250 A	630 A
Short-time current	20 – 25 kA / 3 s	20 kA / 4 s (25 kA option)	20 kA / 3 s
Enclosure	Tank IP67 / cabinet IP55	Tank IP67, cabinet ≤ 600 mm wide	Fully welded IP67 tank, maintenance-free
Endurance & control	10,000 breaker / 3,000 switch ops; FTU & DTU DA	PD < 5 pC; 30,000 mechanical ops; IEC 61850	Internal arc 20 kA / 1 s; altitude > 2,500 m
Compliance	IEC 62271-200 / -106	IEC 62271-200 / -106, salt mist > 168 h	EU F-gas 2024/573, IEC 61850



RAR dry-air RMU, 6–24 kV



REC pure-air / N2 flagship, to 38.5 kV



40.5 kV solid-insulated RMU



22–33 kV solid-insulated RMU



SF6 RMU, sealed three-unit



Metal-clad and C-GIS line-up

KYN28A-12 metal-clad withdrawable switchgear and XGN58 C-GIS complete the medium-voltage range. Solid-insulated RMUs cover 10.5–40.5 kV and SF6 RMUs 11 / 12 / 24 kV; modular solid busbars ('Lego' joints) cut single-panel commissioning time by up to 70 %.

EU F-gas Regulation 2024/573 ready · sealed welded tanks, zero annual leakage target 0.01 % · IEC 62271-200 / -106 / -111, IEC 61850

UKRAINE · DTEK Kyiv grid renovation

186 × 12 kV outdoor vacuum reclosers, commissioned through −40 °C winters (IEC 62271-111; power-frequency 42 kV / LIWL 75 kV).

PHILIPPINES · typhoon-country distribution

13.2 / 34.5 kV, 630 A, 16 / 12.5 kA, 60 Hz typhoon-resistant reclosers with remote operation and maintenance.

Specialty transformers & power-conversion units

Application-engineered dry-type, rectifier and compensation equipment

Beyond standard distribution transformers, Rockwill designs and builds the premium units grids and heavy industry depend on – each engineered to the customer's single-line diagram, pulse number, harmonic and cooling requirements.



Nuclear-plant dry-type transformer



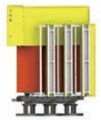
Traction rectifier transformer



H-bridge rectifier transformer



DC ice-melting rectifier



VFD converter transformer



Open-frame capacitor bank



Metallurgical-furnace transformer



Energy-feedback dry-type unit



SC cast-resin dry-type



Amorphous-core dry-type



Dry-type DC capacitor

Engineered, not catalogued

Rectifier and converter transformers are built to specified pulse number and impedance; cast-resin and amorphous-core dry types deliver low losses, high short-circuit strength and minimal maintenance in harsh or indoor environments.

Nuclear & safety
Qualified dry-type units for nuclear-plant auxiliary and safety-related systems.

Traction & DC supply
Traction and H-bridge rectifier transformers for urban rail and industrial DC networks.

Industrial drives
Metallurgical-furnace, VFD converter and energy-feedback transformers for heavy industry.

Compensation & ice protection
Open-frame capacitor banks, dry-type DC capacitors and DC ice-melting rectifiers.

Prefabricated substations & distribution transformers

Factory-assembled, FAT-tested packages from 75 kVA to 40.5 kV



US / EU-style prefabricated substation, 12-40.5 kV



Outdoor compact box substation, 11 / 35 kV



Pad-mounted transformer, 75–2,500 kVA

Range	Ratings & configuration
Prefabricated substations (US / EU styles)	12 / 24 / 36 / 40.5 kV, factory assembled
Outdoor compact box substations	11 kV and 35 kV classes
Pad-mounted transformers	75 – 2,500 kVA
Single-phase oil distribution transformers	1,250 kVA / 20 kV class
Earthing (neutral) transformers	11 – 30 kV
Automatic voltage regulators	single-phase 6 – 14.4 kV; three-phase 13.8 – 34.5 kV



Distribution transformers to complete the grid

The range also covers 1,250 kVA / 20 kV single-phase oil units, 11–30 kV earthing transformers and amorphous-core low-loss types; compact substations and E-houses arrive factory assembled and witness tested.



Dry-type low-loss transformer



Oil distribution transformer



Prefabricated substation

Single-supplier scope — transformer · RMU · recloser · SCADA · prefabricated substation — FAT tested and commissioned as one package

Power transformers & UHV-class giants

From 10 kV utility units to 1,000 kV UHV converter-station autotransformers

The largest, most highly engineered products in the group: single-phase UHV autotransformers and converter-station power transformers, designed for bulk transmission and long-distance interconnection, alongside sealed utility and energy-saving distribution units. Every unit is engineered to order – impedance, cooling, transport limits and short-circuit duty included.

10 kV distribution › **110-220 kV** grid › **330 kV** EHV hub › **550 kV** UHV › **750 kV** bulk interconnection › **1,000 kV** UHV DC

1,000 kV UHV DC



Single-phase autotransformer for UHV DC converter stations – the top of the range.

750 kV interconnection



Large-power interconnect transformers for 750 kV bulk transmission corridors.

550 kV UHV transmission



550 kV-class power transformers for long-distance UHV transmission systems.



330 kV OLTC autotransformer

Three-phase EHV hub autotransformer with on-load tap changing.



Sealed utility transformer

Hermetically sealed oil-immersed utility power transformer.



3D wound-core energy saver

6–11 kV three-dimensional wound-core amorphous / energy-saving transformer.

Engineered to order for transmission duty

Single-phase and three-phase designs · on-load tap changers (OLTC) · converter-station duty · verified short-circuit withstand · tailored impedance, cooling, bushings and transport limits · routine, type and special tests witnessed before shipment.

The highest-value, largest-scale products in the Rockwill portfolio – designed for utilities, EPCs and transmission projects that cannot afford a single failure.

Industrial, rectifier & furnace transformers

Duty-built units for metallurgy, electrolysis, traction, marine and DC supply



Steel arc-furnace transformer

10–35 kV oil-immersed transformer for steelmaking electric arc furnaces.



Submerged-arc furnace transformer

35 kV units for ferroalloy and reduction smelting in submerged-arc furnaces.



Oil-immersed rectifier transformer

6–11 kV three-phase oil rectifier transformers for industrial DC power.



Three-split rectifier transformer

10 kV three-winding split rectifier transformer for multi-pulse drives.



Marine & offshore dry-type

Dry-type transformers for ships and offshore drilling platforms.



Industrial dry-type power

150 kVA three-phase dry-type transformer for industrial distribution.



Reactors & inductors

Reactors and inductors for reactive-power compensation and harmonic filtering.



Industrial converter transformer

Converter-duty transformers for rectifier and industrial drive stations.

Built to the single-line diagram

Pulse number (6 / 12 / 24-pulse), impedance, harmonic duty, overload profile and cooling (ONAN / ONAF / water) are engineered per process – metallurgy, electrolysis, traction rectifier substations, variable-frequency drives and shore / offshore power.

One supplier from the 10 kV dry-type unit to the 1,000 kV UHV converter-station transformer – premium T&D equipment under one quality system.

PART 03 · EV CHARGING & DIGITAL ENERGY

EV Charger

Covering terminal devices, charging hardware and a digital operations platform

Full 40–960 kW range of certified EN-standard chargers



120–240 kW
Integrated DC fast chargers

960 kW
Split charging cabinets

COMPATIBLE WITH MULTIPLE STANDARDS



REAL PROJECT DELIVERY





CERTIFIED TO GLOBAL STANDARDS

CB · CE · MA · TÜVRheinland · CNAS

Serving charging operators, logistics and transport groups, fleet operators, automotive dealers and luxury hotel groups

GLOBAL SERVICE & DELIVERY



EI CHARGE · DIGITAL OPERATIONS

EI Charge Digital Operations Platform

EI Charge App



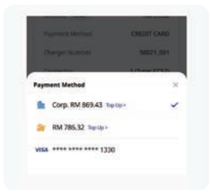
Station Search & Filter

Locate nearby stations on the map and quickly filter for the charger you need.



Real-time Charging Status Tracking

Check your vehicle's charging progress and remaining time at any moment.



Flexible Multi-channel Payments

Supports stored balance, credit cards, pre-authorization and charging cards.

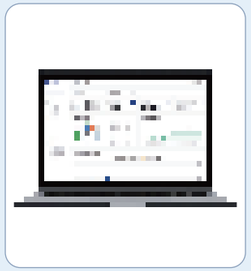


Battery Health Report

Monitor vehicle battery health and manage charging based on data.

Operator Management System





Site & Infrastructure Management
Monitor station and equipment status in real time, with remote configuration and operations management.

Billing Management
Oversee charging billing, process transactions, manage cards, and configure promotions and pricing rules.

Access Control
Manage user accounts (App users, fleet EV drivers and operators), and control data access and permissions.

Data Analytics
Powerful reporting and analytics reveal usage patterns, revenue and operational efficiency for better decisions.

ONE CONNECTED DIGITAL ENERGY ECOSYSTEM

1 EI Charge
Digital Operations Platform for drivers and operators – find, use and manage charging.

2 SCADA AI
Intelligent O&M Platform – closed-loop O&M and after-sales for energy equipment.

3 PINGALAX Cloud
The operating system for chargers, power stations and energy systems.

Core Capabilities

Local Grid Integration · OCPP 1.6/2.0.1 & OCPI · End-to-end Charging Data · Role & Organization Management · Enterprise Accounts · Dynamic Load Balancing

Proven on five continents

Reference cases show how the product family performs in the field – from −45 °C Siberian winters to desert heat and weak rural grids.





UKRAINE

186 × 12 kV outdoor vacuum reclosers and DTEK Kyiv 10 kV smart units, built for −40 °C winters and battle-stressed feeders. Automatic fault isolation and reconnection restore supply without dispatching a crew, accelerating grid renovation across urban and rural lines.



KENYA

170 × 11 kV RCW12M auto-reclosers across rural feeders and 33 kV substations. Smart reclose logic clears transient faults, isolates permanent ones and reports status remotely – fewer outages, fewer crew trips, and remote villages brought onto a monitored grid.



ETHIOPIA

Substation equipment in Addis Ababa – power transformers and distribution switchgear – backed by a local JV factory producing insulators, fuse cut-outs and surge arresters. Rockwill supplies both the hardware and the local assembly and service capacity behind it.



MALDIVES

Island platform and microgrid equipment for dispersed atoll networks. Compact, corrosion-resistant packages survive hot, salt-laden sea air and let isolated islands run on stable hybrid microgrids – reliable power where there is no mainland grid to fall back on.

Long-term OEM, EPC and joint-venture partnerships across five continents – one accountable partner from engineering to after-sales.

Featured cases, proven capabilities

Rockwill equipment is in service in more than 130 countries, but it is the depth of each deployment – not just its geography – that defines the value. Six featured cases show how Rockwill moves from engineered equipment to full, accountable solutions: factory-prefabricated substations, switchgear upgrades, transmission-level voltage regulation, compact gas-insulated switchgear, distribution automation and intelligent power-quality management.

01 **Complete Turnkey & Prefabricated Substations** — **400 units · 3-day commissioning**

Niger – 400 IEC 62271-202 compact substations, pre-assembled and factory-tested, delivered ready to energise.

02 **MV Switchgear & Distribution Upgrade** — **1250 A · 31.5 kA**

South Africa, deep mine – KYN28 withdrawable metal-clad switchgear with IEC 61850 digital protection.

03 **Transmission-Level Voltage Regulation** — **263 × 33 kV**

Bangladesh – 263 oil-immersed 33 kV step regulators holding output within ±1%.

04 **High-Voltage Gas-Insulated Switchgear** — **20 units · zero failures**

Ghana – 20 × 12 kV R-GIS panels on a footprint 60% smaller than air-insulated gear.

05 **Distribution Automation & Rural Grid Protection** — **170 × 11 kV**

Kenya – 170 × 11 kV RCW12M auto-reclosers with smart reclose logic and remote monitoring.

06 **Intelligent Power-Quality Management** — **±0.5% · ≤1 s**

SE Asia industrial park – on-load regulator plus dynamic SVG, coordinated by AI control.

LOCAL PARTNERS, LOCAL DELIVERY

In the Democratic Republic of the Congo, Rockwill delivers through national partners – local assembly, installation and after-sales support, so capability stays in the market after the equipment is handed over.



From a single switchgear bay to a 400-unit turnkey program – Rockwill engineers, delivers, commissions and supports the complete solution, worldwide.

01 CAPABILITY
Complete Turnkey · Prefabricated Substations

Niger – 400 prefabricated substations, delivered turnkey



IEC 62271-202 prefabricated substations delivered to NIGELEC.

BACKGROUND / CHALLENGE

NIGELEC had to grow distribution across a hot, dusty Sahelian region, where conventional substations need months of civil work and skilled crews.

ROCKWILL SOLUTION

Rockwill supplied 400 IEC 62271-202 prefabricated compact substations (250-1600 kVA), pre-assembled and factory-tested – IP54, double anti-corrosion coating, C4 hot-climate rating, French panels and training.

COMPETITIVE ADVANTAGE

- **Turnkey, single-accountable –** design, equipment, protection, testing and training from one partner.
- **Desert-proven –** IP54, C4 rating and double anti-corrosion coating for 45 °C and dust.
- **3 days to commission per unit** vs ~3 months conventionally, with civil works cut by over 80%.

OUTCOME

All 400 units passed NIGELEC acceptance first time, bringing reliable power to urban and rural communities with minimal site work.

400	3 days	–80%
prefabricated units	per-unit commissioning	civil works



Factory inspection and operator training – delivered in French.

02 CAPABILITY
MV Switchgear & Distribution Upgrade

South Africa – deep-mine KYN28 switchgear upgrade



KYN28 metal-clad switchgear for the South African mine.

BACKGROUND / CHALLENGE

A deep-level mine's 12 kV network had to run drives, ventilation and pumps non-stop, but ageing switchgear was unmonitored and prone to dust and condensation.

ROCKWILL SOLUTION

Rockwill supplied KYN28 metal-clad withdrawable switchgear to IEC 62271-200: 1250 A, 31.5 kA vacuum breakers, Alu-zinc IP4X panels and IEC 61850 digital feeder relays with fault recording and sequence-of-events.

COMPETITIVE ADVANTAGE

- **Withdrawable –** breakers roll out for maintenance without de-energising the switchboard.
- **Digital and protected –** IEC 61850 relays, anti-condensation heaters, altitude up-rating, interlocks.
- **Service for life –** 24-month warranty, 2-hour response, 24-hour on-site in western SA, 10-year parts.

OUTCOME

The mine gained a safe, monitored, fully maintainable substation with documented protection and long-term service.

1250 A	IEC 62271	24 mo
31.5 kA rated	+ IEC 61850	warranty



The Rockwill commissioning team on site at the mine.

03 CAPABILITY
Transmission-Level Voltage Regulation

Bangladesh – 263 × 33 kV step voltage regulators



The 263-unit regulator batch prepared and tested in the factory.

BACKGROUND / CHALLENGE

On BPDB's 33 kV network, long feeders and wide load swings pushed voltage up to ±20% off spec, damaging equipment and breaching power-quality limits.

ROCKWILL SOLUTION

In June 2024 Rockwill delivered 263 oil-immersed 33 kV RVR-1 regulators (990 kVA / 300 A, 32 on-load steps across 33 ±10%). A hermetically sealed tank handles 40 °C coastal heat, with remote tap monitoring.

COMPETITIVE ADVANTAGE

- **Holds output within ±1%** even when input swings ±20% – transmission-level capacity on a 33 kV feeder.
- **32 on-load steps,** 2,000,000+ mechanical operations, BPDB-approved for unattended service.
- **Sealed and monitored –** hermetic tank and remote status for corrosion-resistant, low-maintenance operation.

OUTCOME

Voltage stabilised along the feeders, damage and complaints fell, and BPDB gained fleet-wide visibility of every regulator.

263	990 kVA	±1%
33 kV regulators	300 A · 32 steps	output stability



On-site installation of the hermetically sealed regulator tank.

04 CAPABILITY
High-Voltage Gas-Insulated Switchgear

Ghana – 11 kV R-GIS gas-insulated switchgear



The R-GIS panel array – a compact, sealed switchgear room.

BACKGROUND / CHALLENGE

A utility substation needed to expand 11 kV capacity on a tight footprint, reliably and with minimal upkeep, but air-insulated gear would fill the building.

ROCKWILL SOLUTION

Rockwill supplied 20 R-GIS-12/1250-31.5 panels (12 kV, 1250 A, 31.5 kA / 3 s): SF6 insulation, IP67 gas compartment, IP54 enclosure. Each passed FAT at 42 kV / 1 min and 95 kV impulse, leakage ≤0.5%.

COMPETITIVE ADVANTAGE

- **60% smaller footprint** than equivalent air-insulated gear, freeing space for future bays.
- **Sealed for the climate –** IP67 gas compartment, IP54 enclosure and ≤0.5% annual leakage.
- **Type-tested –** 31.5 kA / 3 s, 42 kV / 1 min and 95 kV impulse ratings confirmed in FAT.

OUTCOME

Commissioned in 2025, the 20 panels have run with zero failures to date, with fewer maintenance rounds and room for future bays.

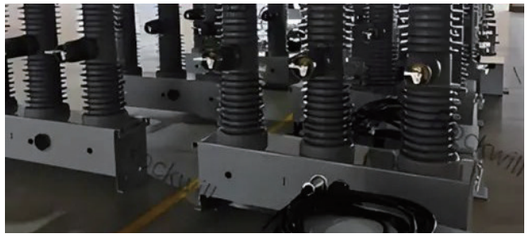
20	–60%	zero
R-GIS panels	floor space	failures to date



Panels dispatched by sea in export packaging.

05 CAPABILITY
Distribution Automation · Rural Grid

Kenya – 170 × 11 kV automatic reclosers



RCW12M reclosers in factory production for the 170-unit order.

BACKGROUND / CHALLENGE

Rural feeders run far through remote terrain. Most outages are transient, but every fault meant a crew trip and hours of darkness for scattered villages.

ROCKWILL SOLUTION

In May 2023 Rockwill deployed 170 RCW12M 11 kV auto-reclosers (630 A, 16 kA, 95 kV BIL, 50 Hz) on 33 kV substations and rural feeders, with permanent-magnet actuators, 0–3 reclose logic and a control-centre link.

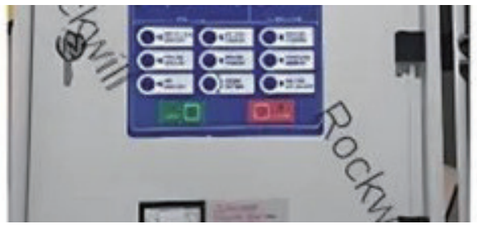
COMPETITIVE ADVANTAGE

- **Self-healing feeders –** clears transient faults and isolates permanent ones via 0–3 reclose logic, no crew.
- **Rugged pole-mount –** 630 A, 16 kA and 95 kV BIL, built for high temperature and heavy rain.
- **Rural-grid automation –** remote monitoring extends protection to hundreds of remote feeders, not just cities.

OUTCOME

Outage duration and crew dispatches fell, and remote villages moved onto a monitored, self-healing distribution network.

170	16 kA	0–3
11 kV reclosers	95 kV BIL	reclose sequences



The smart controller hosts the 0–3 reclose logic and comms link.

06 CAPABILITY
Intelligent Power-Quality Management

SE Asia industrial park – regulation & power quality



Intelligent voltage-regulation equipment at the industrial park.

BACKGROUND / CHALLENGE

A manufacturing park faced voltage sags, fluctuating power factor and harmonics from mixed loads – threatening process stability, equipment and energy costs.

ROCKWILL SOLUTION

Rockwill integrated an on-load-tap regulator with a dynamic SVG static var compensator, coordinated by a PLC with an AI algorithm. Voltage, power factor and harmonics are corrected in real time, in IP54 cabinets for the factory floor.

COMPETITIVE ADVANTAGE

- **Voltage held to ±0.5%** – within the guaranteed ±1% band – with correction in one second or less.
- **Regulator + dynamic SVG** together lift power factor to ≥0.95 and suppress harmonics.
- **AI-assisted control** replaces separate single-purpose devices with one real-time monitored platform.

OUTCOME

Production lines now run on stable, clean power – fewer interruptions, better energy efficiency and full visibility of power quality.

±0.5%	≤1 s	≥0.95
voltage regulation	response time	power factor



The on-load regulator controller at the heart of the package.

LOCAL MANUFACTURING

Joint-venture factories, close to the market

Two local-manufacturing enablement projects delivered in parallel across East Africa.

1 TANZANIA

Establish JV Transformer Factory in Tanzania

Full-process technical support for transformer and medium-voltage switchgear manufacturing: factory planning, equipment selection, process engineering and personnel training.

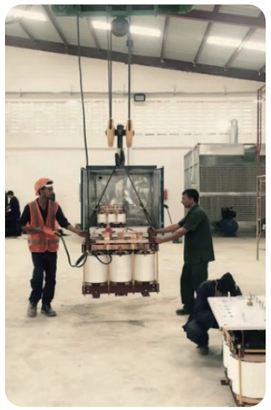
Built local SKD/CKD assembly of oil-immersed distribution transformers and distribution switchgear.

2 ETHIOPIA

Establish JV – Africa's largest insulator, fuse-cutout & surge-arrester facility

Technology selection, process engineering, equipment configuration and personnel training for insulators, surge arresters and fuse cutouts.

The partner became one of the few East African manufacturers with integrated production of surge arresters, fuse cutouts and insulators.





On site in Tanzania – assembly, welding, drying and training.

On site in Ethiopia – press-line installation, commissioning.

CLIENTS & PARTNERS · EVENTS

Clients and partners, on site and at events

From exhibition booths and factory visits to commissioning sites and shared dinners – partnerships built in person, on every continent.



100,000 m², built for the whole portfolio



Power-transformer test area



Transformer bay, overhead crane



Transformer assembly



Switchgear assembly line



Finished distribution transformers



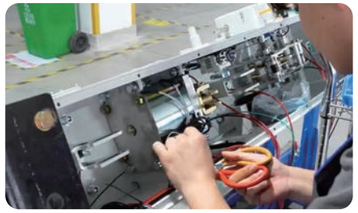
Component stores – scale



Foil winding machine



Switchgear panel wiring



Control wiring – detail

Dedicated lines

Switchgear, transformers, breakers, outdoor equipment and insulating parts.

Vertical integration

Machining, sheet metal, insulating parts and assembly under one roof.

Test & FAT

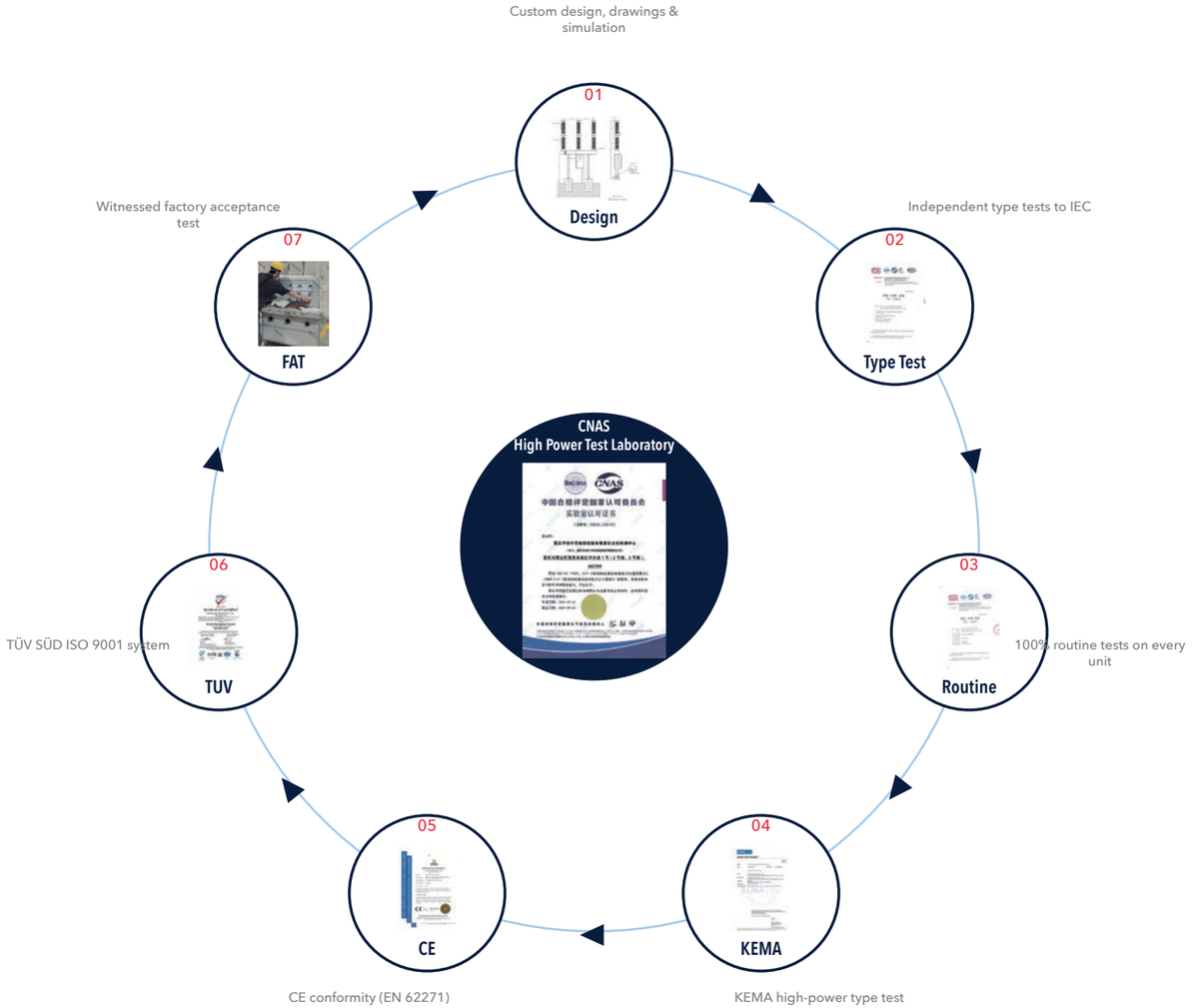
Routine, type and witness testing with full traceability.

Scale

Capacity to build and ship the full portfolio at volume.

QUALITY ASSURANCE

Tested, certified and witnessed



ONE-STOP EPC CAPABILITY – ONE RESPONSIBLE PARTNER, FULL-CHAIN DELIVERY

From engineering to commissioning, Rockwill delivers the full package so certified equipment arrives ready to install.

01 ENGINEERING
custom design, EMTP/ANSYS/COMSOL simulation & drawings

02 PROCUREMENT
certified materials, in-house build & full-chain QC

03 CERTIFICATION
type & routine tests, KEMA / CE / TÜV with witness

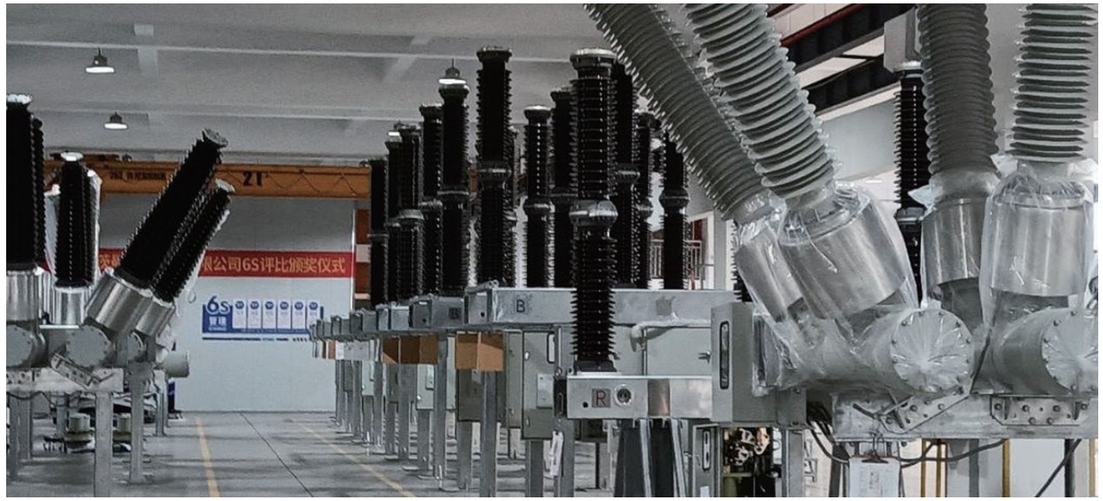
04 DELIVERY & COMMISSIONING
monitoring, full documentation & PGP

One accredited procedure – from design review to witnessed factory acceptance.

RESEARCH & DEVELOPMENT

Verified in our own high-power laboratory

Every rating in this brochure is verified in our own CNAS-accredited high-power test laboratory – type tests, routine tests and witnessed factory acceptance tests, all under one roof.



CNAS high-power test hall – transformers and switchgear under test.

IN-HOUSE TEST CAPABILITIES

01 Short-circuit & high-power	**02** Temperature rise
03 Dielectric & insulation	**04** Mechanical & endurance
05 EMC & electromagnetic	**06** Power-module burn-in



From the first prototype to the FAT report

The same CNAS-accredited procedures, traceable BOMs and quality systems govern every product family – so the performance proven in the lab is the performance that ships.

QUALITY ASSURANCE · FACTORY ACCEPTANCE TEST

Clients witness every test

Before release, customers join our engineers on the test floor to witness routine and type tests. Every measurement is recorded and every result is signed off.





















Signed, witnessed records

Every FAT ends with signed, witnessed test reports – the customer's green light to pack and ship.

Packed, loaded and installed on site

After acceptance, equipment is wrapped and crated, loaded under our own overhead cranes and delivered worldwide – with installation, commissioning and training support on site.

PACKING & LOADING







ON-SITE INSTALLATION & COMMISSIONING










Engineering-led, not deal-led

A national-level R&D team and National Key "Little Giant" enterprise, anchored by a National Postdoctoral Research Workstation – a commercialization platform that turns lab technology into mature industrial products.

Our Talent

11	28	47
Postdoctoral Researchers	**PhD Holders**	**Master's Degree Holders**
National workstation cohort	Doctorate-level engineers	Applied R&D backbone

R&D in Action







Talent from Leading Universities Worldwide

- **Delft University of Technology** (Netherlands)
- **TU Dresden** (Germany)
- **Friedrich-Alexander-Universität Erlangen-Nürnberg** (Germany)
- **Linköping University** (Sweden)
- **Tsinghua University**
- **Zhejiang University**
- **Harbin Institute of Technology**
- **Chongqing University**

NATIONAL-LEVEL R&D TEAM · NATIONAL KEY "LITTLE GIANT" · NATIONAL POSTDOCTORAL WORKSTATION

ROCKWILL
Industrial Depth & Market Validation (2008–Present)

As founder — a commercialization validation platform that turns lab technology into mature industrial products.

20% R&D personnel as a share of total company workforce

PINGALAX
Hardcore R&D & International Substitution

As co-founder & executive director — conquering key industry technologies.

56% R&D personnel as a share of total company workforce

Growth is funded by products, not by announcements.

Rockwill remains the single accountable partner – from engineering to after-sales.

Let's build the grid of tomorrow

Rockwill works with utilities, EPCs, developers, distributors, charging operators and equipment brands – as a supplier, an OEM/ODM partner or a local joint-venture manufacturer.

What you get as a partner

1. Certified hardware for global markets
2. Localised manufacturing, JV assembly & delivery
3. Bid documentation, FAT & project support
4. Cloud software, training & after-sales
5. One accountable partner end-to-end

SUPPLY

Standard & engineered-to-order T&D and charging hardware, certified to IEC / IEEE.

OEM / ODM

Private-label equipment, portable power and charging stations built to your brand.

JOINT VENTURE

Local assembly plants with Chinese tooling, quality and training – Tanzania and beyond.

ROCKWILL ECOSYSTEM

Together, let's charge forward.

From chips to cloud, from the first mile of the grid to the last mile of charging – we are looking for partners who want to build the energy system of the next decade.

ROCKWILL ELECTRIC CO., LTD.
www.rockwill.com

VZIMAN POWER TECHNOLOGY
www.vziman.com

PINGALAX (PINGCHUANG NEW ENERGY)
www.pingalax.com

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