

**eLeading “AI + Renewable Energy”**

**Empower PV & ESS & EVCS Total Solutions**



EAST Energy Storage Technology Co., Ltd.

# CONTENTS

01

**Company Profile**

02

**Core Business**

03

**Products & Solutions**

04

**Success Stories**

# PART 01

## Company Profile

Company Profile | R&D Innovation | Smart Manufacture | Qualifications and Honors

# EAST Group (Stock Code: 300376)

- Founded in **1989**, listed on the Shenzhen Stock Exchange in 2014
- Focuses on three strategic segments: **UPS, Data Center, and Renewable Energy + ESS**
- Former subsidiary of Schneider Electric with strong manufacturing capability
- Ranked **No.1** in China as an integrated energy solution provider Brand value
- Recognized as a Global Top **500 Renewable** Energy Enterprise and Top **100 Innovative Enterprise**
- **36 years** of experience in Power Electronics and Energy Efficiency Management
- Operates **268** customer centers worldwide, Serves over **100** countries and regions

The Expert of Power Electronics and Energy Management ;  
The Outstanding Listed Company Dedicated to Global Digital Energy and Total Solutions(Wind&PV&ESS&EVCS)

# EAST Energy Storage Technology Co.,Ltd

Innovative Total Solution(PV\*ESS\*EVCS) Provider

- A wholly-owned subsidiary of EAST Group (Stock Code: 300376)
- Long-term focus on AI+Renewable Energy segments such as PV inverter, BESS and Charging solutions,fully integrated state-of-the-art technologies such as Power Electronics and IIOT.
- Dedicated to **BESS, PV Inverters, EV Chargers and AI-driven EMS** products and solutions.
- Vision: Innovative Total Solution(PV\*ESS\*EVCS) Provider



**BESS**

×



**Inverter**

×



**EVCS**

×



**AI-driven EMS**

# R&D Innovation

EAST Group, a pioneer in Chinese UPS, has 36 years of experience in power electronics, battery technologies, and mass production. It leads the industry with its 4-generation ESS integrated system: Mass-production, Developing, Pre-research, and Explore.



## 3 R&D Centers

Dongguan, Xi'an and Shenzhen Innovation Centers

## 300+ R&D Engineers

65% engineers with 10+ relevant experience

## 800+ Patents

Achieved 800+ patents, within 70+ disruptor applications

## 20+ Top Universities

Strategic partnerships with Tsinghua University, Westlake University etc.

# Smart Manufacturing

**10GWh+** Annual Delivery Capability

## GW-Level Manufacturing Bases

Deployed in Guangdong, Henan, Gansu and Jiangsu, to serve regional markets.

## Smart Production Lines

Equipped with MES, integrated with automated production lines and smart robotic arms, achieving digital value chain and intelligent management.

## AI Digital Management

Integrated with CRM, SAP, MES, SRM and PLM system, realize production data synergy



# Qualifications and Honors

## Tier 1

BNEF Global Tier 1 Player (\*BNEF)



## NO.1

Top1 Domestic Comprehensive Energy Solutions Player (\*Polaris media)

## TOP10

2024 TOP10 Chinese BESS Players by shipment (\*Polaris media)

## TOP5

2025 H1 TOP5 BES Players (\*International Energy media)



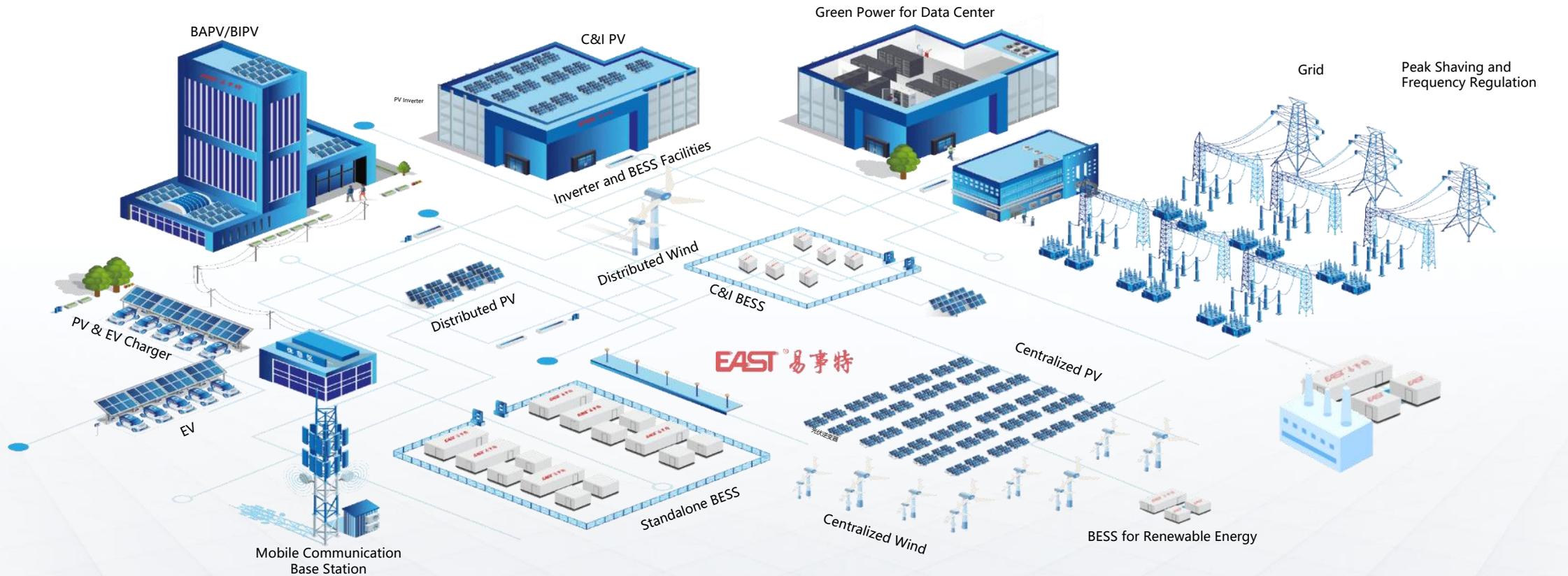
# PART 02

## Core Business

PV & ESS & EVCS Solutions by Applications | PV & ESS & EVCS & EMS Total Solutions | AI-driven EMS | Life Cycle Services

# PV & ESS & EVCS Solutions by Applications

Addressing the comprehensive demands from the customers segmented by **Power Generation & BESS, Power Grid & BESS and End User & BESS**, EAST Group take the challenges and dedicate to **BESS, PV Inverter, EV Charger and AI-driven EMS**...etc, and offer total solutions by customized applications.



**Commercial & Industrial**

**Power Generation**

**Grid-scale**

# PV & ESS & EVCS & AI-driven EMS Total Solutions

## ESS



- ☑ 1500V 2.5MW-6.8MW String PCS
- ☑ 1500V 2.5MW-6.9MW Central PCS
- ☑ 1500V 5MWh-26.752MWh Series BESS
- ☑ 1500V 2.5MW/5MWh All-in-One BESS
- ☑ 100kW 215kWh C&I BESS(Air-cooled)
- ☑ 100kW 233kWh C&I BESS(Liquid-cooled)
- ☑ 135kW 261kWh C&I BESS(Liquid-cooled)

## PV



- ☑ EA320/350KTL SI Series PV Inverter
- ☑ EA50/110KTL SIW Series PV Inverter
- ☑ EACOM-AC800 PV Communications Box

## EVCS



- ☑ EVAC-7-22kW Series AC EV Charger
- ☑ EVDC-20kW-240kW integrated DC Charger
- ☑ EVCP-360kW~720kW multi DC Charger
- ☑ EVDC-240kW~480kW integrated DC Charger
- ☑ 40kW/50kW/55kW/60kW Charging Cabinet

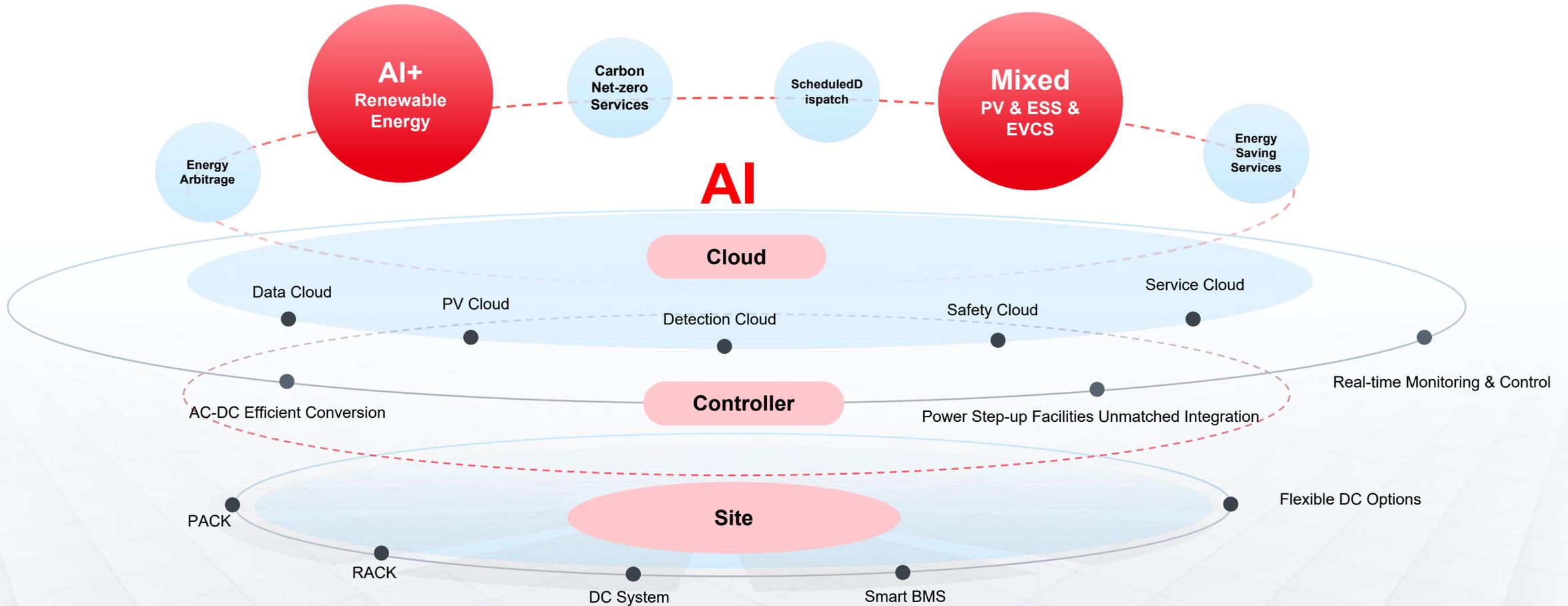
## AI-EMS



- ☑ BMS
- ☑ eDome Smart EMS Platform
- ☑ EAEMS-DM919 Utility-scale EMS
- ☑ EAPMS-DM600 PMS
- ☑ EAUEMS-DM206 EMS Smart Gateway

# AI-driven Energy Management Platform

Strategic positioned “AI+Renewable Energy”, dedicated to fully integrate the AI technologies and Renewable Energy Segments. Leveraged the advanced AI-arithmetic and smart monitoring & control system, to integrate Renewable Energy, BESS and EMS, and build up industry-leading Cloud-Controller-Site integrated platform.



# Life Cycle Services



# **PART 03**

## **Products and Solutions**

BESS Solutions | PV Inverter Solutions | EVCS Solutions

PV & BESS & EVCS/Generator Total Solutions | AI-driven EMS Solutions

01

## BESS Solutions

Addressing the customer value-added services empowered by innovative solutions, EAST offers a complete portfolio for “4S” self-developed total solutions such as PCS, BMS, EMS and PMS, subject to **Renewable Energy** with BESS, **Standalone** BESS and **C&I** BESS.



5MWh-26.8MWh Utility-scale BESS | 215kWh/233kWh C&I All-in-One BESS | Self-developed critical PCS modules range from 160kW to 3500kW...

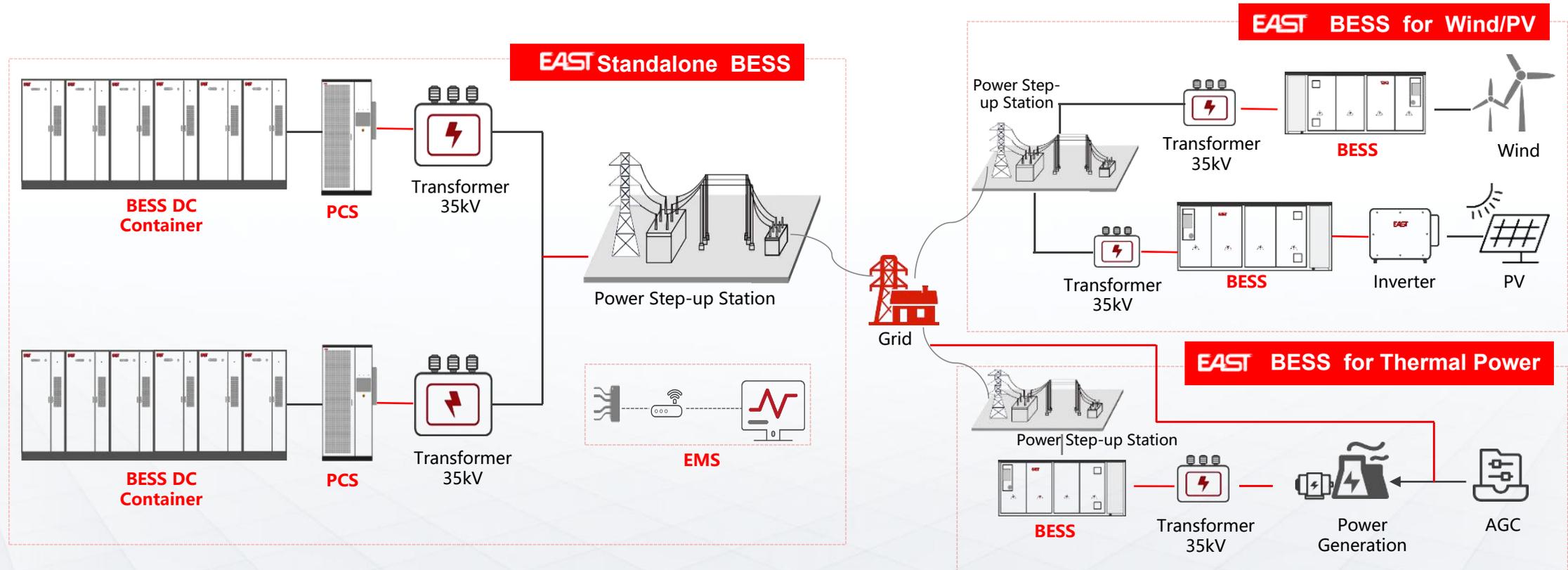
## © Utility-scale BESS Solutions

For the application scenarios of **Power Generation** and **Grid-scale**, EAST offers a complete portfolio for utility-scale applications range from 1500V String BESS Solutions to Central **5MWh-26.8MWh** BESS Solutions.



# Utility-scale BESS Applications and Solutions

Addressing the Challenges of New Power Systems, EAST offers a complete portfolio for Utility-scale BESS solutions such as centralized/string air-cooled, liquid-cooled and liquid-immersed BESS, subject to **Standalone BESS, Wind/Solar farm with BESS, Thermal Power with BESS for Frequency Regulation.**



# Centralized **Liquid-cooled** BESS Container Solution

## # GWh-level Reference List



◎ 6.7MW Centralized PCS Skid



◎ 6.7MWh Liquid-cooled DC Container

### ◆ Utility-scale Application, Reference List **GWh+**

- Power Density Improve **15%**
- Max. Efficiency **99%**
- DC Short-circuit 250kA, **ms-Level** disconnect switch



◎ 2.5MW Centralized PCS Skid



◎ 5MWh Liquid-cooled DC Container

### ◆ Modular & Scable, System Optimization **30%+**

- 314Ah Cell Design, LCOE Cost Down **16%+**
- DC **1000Vdc~1500Vdc** (w/t Derating)
- BMS Active Balancing, Automatic Liquid Supplement, Grid-forming PCS



Brochure

# Centralized **Liquid-cooled** BESS Cabinet Solution

# Modular & Scable System



© 3.4MW Centralized PCS Skid



© 6.7MWh Liquid-cooled DC Cabinet

**More Flexible**



**Flexible** to scale up project size

**Triple-Layered** Safety Protection



**Intelligent O&M**

**Safety & Reliability**



**Modular & Scable** Design, Single Standalone Unit, Physical Isolation

**Cell-level** Detection, Intelligent Remote Monitoring and O&M



**Long-life Technology**



Brochure

# Centralized **Liquid-cooled** BESS Container Solution

## # IEC Standards Compliance



◎ 2.5MW Centralized PCS Container



◎ 5MWh Liquid-cooling DC Container

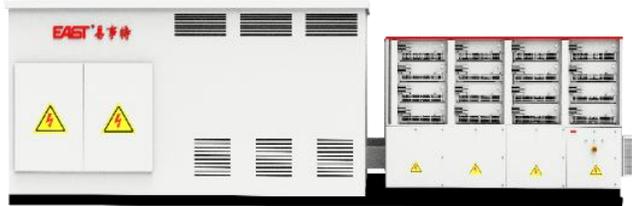
- Comply with **IEC Standards**
- AB-Block Design, Land Saving **40% ↑**
- Standard container for quick deployment, Overall Deployment Time Optimize **30% ↑**
- **20 Feet** Standard Container, subject to sea transportation
- **IP67** rated PACK, **IP55** rated Container , **C5** Coating,multiple proactive safety protection
- Up to **4000** meters(w/t Derating),Ring main Unit with the **SF6** gas



Brochure

# String **Liquid-cooled** BESS Container Solution

# TOP1 Power Density



◎ 6.7MW String PCS Skid



◎ 6.7MWh Liquid-cooled DC Container

TOP1 Power Density, Land Saving **30% ↑**, Efficiency Optimize **0.5% ↑**

- Optimize Cell Lifetime **10% +**, Compatible with **314Ah +** cell
- Scalable Building Units, Land Saving **30%+**
- Efficient and intelligent liquid cooling temperature uniformity control, Temperature Difference less than **3°C**
- String-based efficient solution, **1 VS.1 Rack-level** Management



Brochure

# String **All-in-One** BESS Container Solution

## # IEC Standards Design and Compliance



© 2.5MW/5MWh All-in-One BESS Container

- Comply with **IEC Standards**
- String **All-in-One** Standard Container Design
- Energy Density Improve **14%**
- LCOE Lower **3% ~ 5%**

- |   |  |  |  |
|---|--|--|--|
| <p> <b>Innovative Design</b></p> <ul style="list-style-type: none"> <li>• 20 feet standard container</li> <li>• 1P104S PACK Design</li> </ul> | <p> <b>Unmatched Reliability</b></p> <ul style="list-style-type: none"> <li>• Triple-layer FSS Design</li> <li>• Available for 4000m altitude</li> </ul> | <p> <b>Configuration Upgrade</b></p> <ul style="list-style-type: none"> <li>• 12 Racks with 314Ah cell</li> <li>• Integrated with 209kW string cabinets</li> </ul> | <p> <b>Enhanced Lifecycle</b></p> <ul style="list-style-type: none"> <li>• 1 VS.1 Rack-level management,w/t rack-level circumfluence</li> <li>• With up to 8000+ Cycles available</li> </ul> |
|---|--|--|--|



Brochure

# Liquid-immersed BESS Container Solution

## # Industry-leading Safety Protection

\* Pioneer



◎ 2.5MW PCS Skid



◎ 5MWh Liquid-immersed DC Cabinet

- ◆ Industry-leading liquid-immersed thermal management,PACK Temperature Difference  $\leq 2^{\circ}\text{C}$
- ◆ Ultra-high Cell Consistency,Unmatched System Safety,thermal runaway **Ultra-low Risk**

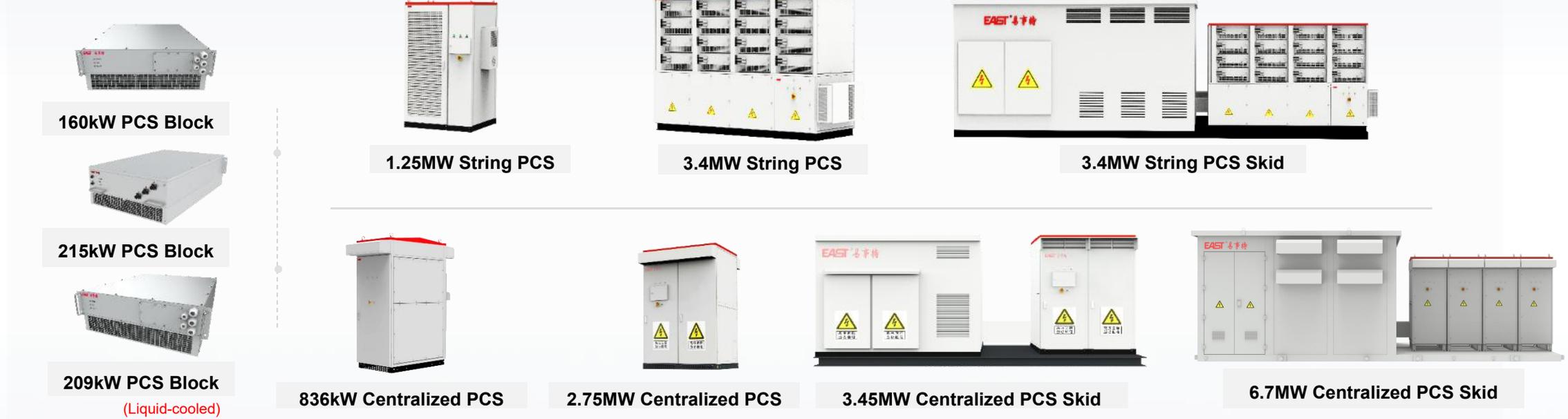
- PACK-level Liquid-immersed Cooling Solution, Unmatched Safety
- Multiple Fault Intelligent Detection and safety protection

- Smart Liquid-cooled for Heat Mitigation and Temp Control
- 3-Phase Topology,Max. Efficiency up to 99%



Brochure

# PCS Solutions



## High-efficiency

- 3-Phase design, efficiency 99%
- Smart air-cooled, 45°C w/t derating

## More Flexible

- EAST to expand, standard scalable and modular design
- Modular Standardization Design, easy for O&M

## Safe & Reliable

- IP65 protection, insulation with hot and cold climates
- Multiple safety protection, Self-diagnostic capability

## Grid Friendly

- Peak Shaving and Load shifting, Local Control
- Subject to LVRT, HVRT and weak power transmission network.



Brochure

# PACK Solutions

## ◆ 1P104S **Spray-type** PACK



| 产品规格          | EEB332314R104S        |
|---------------|-----------------------|
| 电芯类型          | 磷酸铁锂                  |
| 电芯容量 (Ah)     | 314                   |
| 串并方式          | 1P104S                |
| 标称电压(Vdc)     | 332.8                 |
| 推荐工作电压范围(Vdc) | 270.4-374.4           |
| 标称容量(kWh)     | 104.4992              |
| 额定充/放电电流(A)   | 157                   |
| 工作温度范围(°C)    | -20~60 (放电) 0~60 (充电) |
| 尺寸(mm)        | 2180*780*243          |
| 重量(kg)        | 650                   |
| 防护等级          | IP68                  |
| 冷却方式          | 浸没液冷                  |
| 工作海拔          | 4000m                 |



扫描二维码了解产品信息

Brochure

## ◆ 1P104S **Big Cell** PACK



| 产品规格          | EEB332587R104S        |
|---------------|-----------------------|
| 电芯类型          | 磷酸铁锂                  |
| 电芯容量 (Ah)     | 587                   |
| 串并方式          | 1P104S                |
| 标称电压(Vdc)     | 332.8                 |
| 推荐工作电压范围(Vdc) | 270.4-374.4           |
| 标称容量(kWh)     | 195.3536              |
| 额定充/放电电流(A)   | 293.5                 |
| 工作温度范围(°C)    | -20~60 (放电) 0~60 (充电) |
| 尺寸(mm)        | 2230*1250*225         |
| 重量(kg)        | 1200                  |
| 防护等级          | IP68                  |
| 冷却方式          | 冷板液冷                  |
| 工作海拔          | 4000m                 |



扫描二维码了解产品信息

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# Innovative Auxiliary Approach

## ◆ Automatic **Recharge** Facility



- Debug cell voltage difference
- Automatically identify the disabled battery cells
- Intelligent Charging and Balancing



Brochure

**Applications:** © Air-cooled BESS and Liquid-cooled BESS

## ◆ **ActiveLi** Battery Controller



- Active string batteries
- **100%** Manage and Supervise the Current Distribution between Racks
- Comprehensively enhance the battery SOH
- Optimize BESS capacity utilization up to **99.9%**



Brochure

## © C&I BESS Solutions

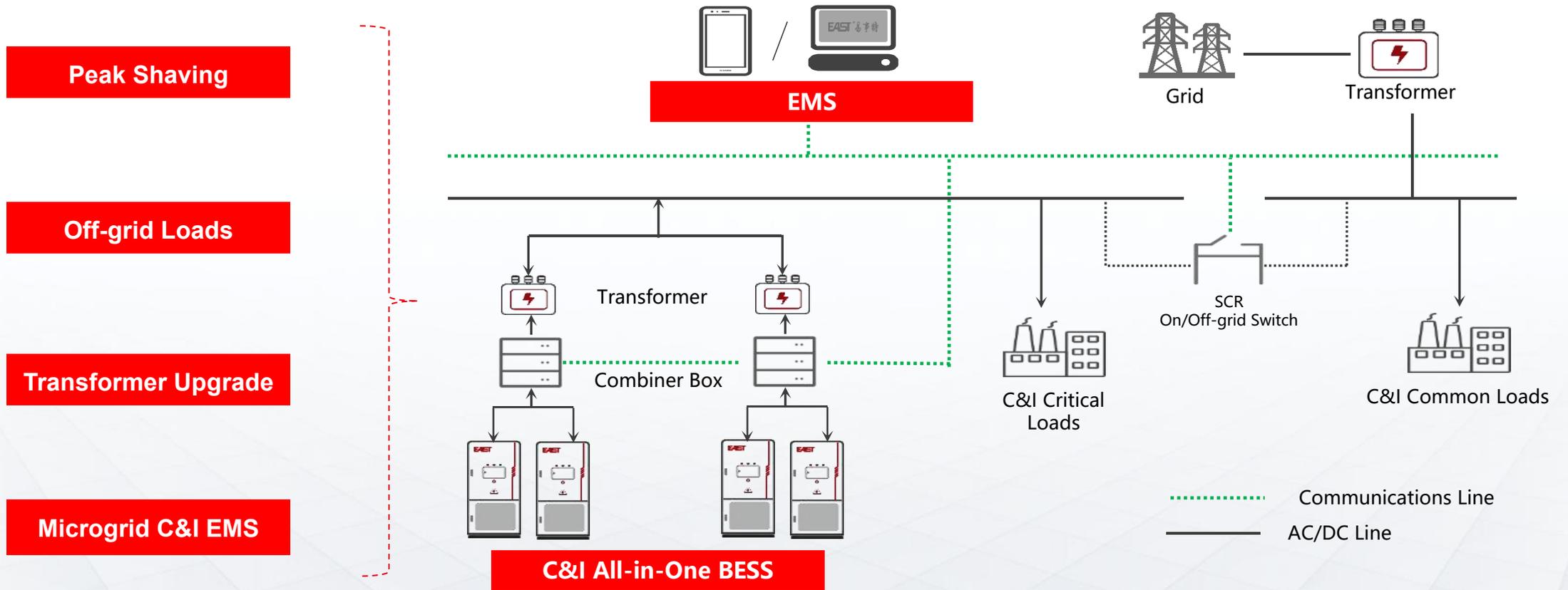
In response to the dynamic energy demands of **End Users**, EAST offers a complete portfolio for C&I All-in-One products such as **100kW/215kWh(Air-cooled)**, **100kW/233kWh(Liquid-cooled)** and **135KW/261KWh...etc.**



# C&I BESS Solutions by Applications

**Applications:** ◎ Commercial or Industrial Sites, Data Center, 5G Base Station, Highway Charging Stations and Service Centers...etc.

- ◎ PV & BESS & EVCS comprehensive applications
- ◎ Microgrids
- ◎ Substation energy storage (power distribution network dynamic expansion)



# C&I All-in-One Solutions



## High Integrated

- Integrated cabinet design, small potprint
- Highly integrated, system efficiency improve 1%

## High Compatibility

- IP54 Protection, C5 Coating
- Flexible options, easy to expand

## Unmatched Safety

- Standalone FSS, Physical Isolation
- AI-driven Triple FSS, ZERO safety accident

## System Friendly

- Flexible to charge and discharge
- Power Station Level monitoring and O&M

# 100kW/135kW PCS Blocks



100kW PCS Block



135kW PCS Block



Brochure



## High Efficiency

- 3-Phase design, Max. Efficiency 99%
- Smart air-cooling, 50°C w/t derating



## More Flexible

- Scalable Building Units, Easy to expand to increase capacity
- Modular and Scable design, simplified logistics and installation



## Safe & Reliable

- IP65 Rated Cabinet, robust design
- Multi-layered Safety Protection, Self-diagnostic capability



## Grid Friendly

- Subject to LVRT, HVRT and weak power transmission network
- Empower Grid Stability & Flexibility

02

## PV Inverter Solutions

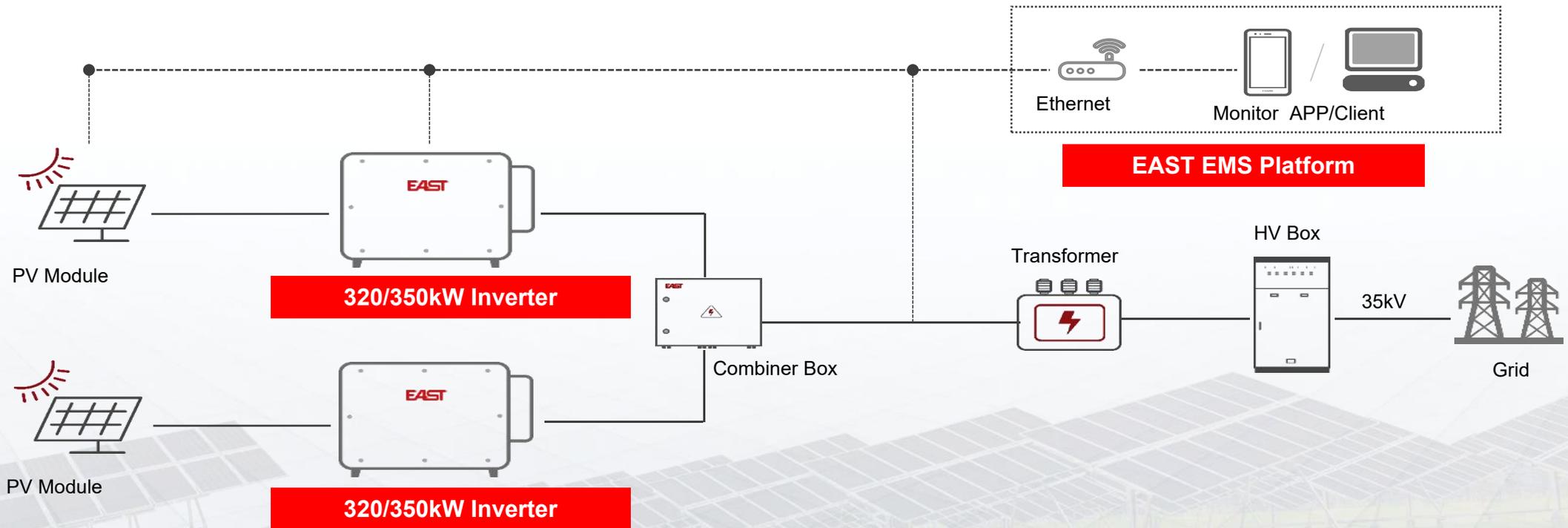
EAST focus on high power string inverters range from **320/350kW to 50/110kW**, featured as higher power generation, safe and reliable, cost saving and intelligent user-friendly, installed base **2GW+**



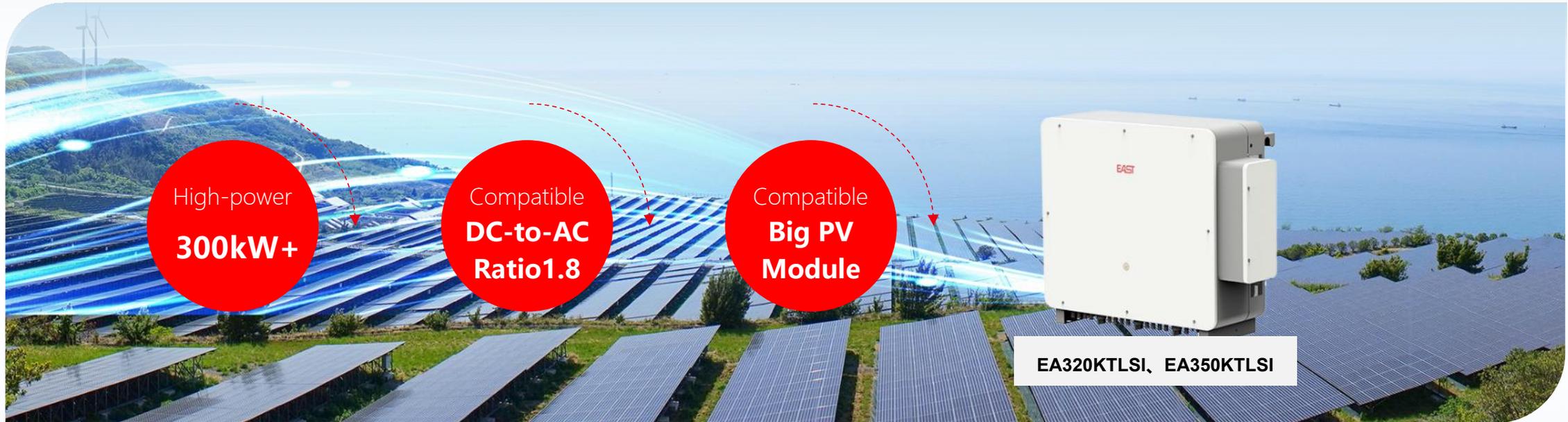
# 1500V String Inverter Solutions

**Applications:** ☉ Centralized PV Station 35kV Grid-tied solution    ☉ Large-scale rooftop 10kV Grid-tied solution

**LCOE Cost Down**  
**Match Big PV Modules** × **Proactive Safety Protection**  
**Empower Grid**



# 320kW/350kW **High-power** String Inverter



## High efficiency

- Compatible with 182/210mm PV Modules, PV DC-to-AC Ratio up to 1.8
- PV 30 inputs, Max. Efficiency 99.01%

## Safe & Reliable

- IP66+C5
- -30°C~60°C long-term stable operation
- AC&DC power supply redundancy design

## Smart & User-friendly

- Compatible with IEC61850
- Intelligent string inspection and I-V Scanning is also available
- Accessible to data, Site-level system management

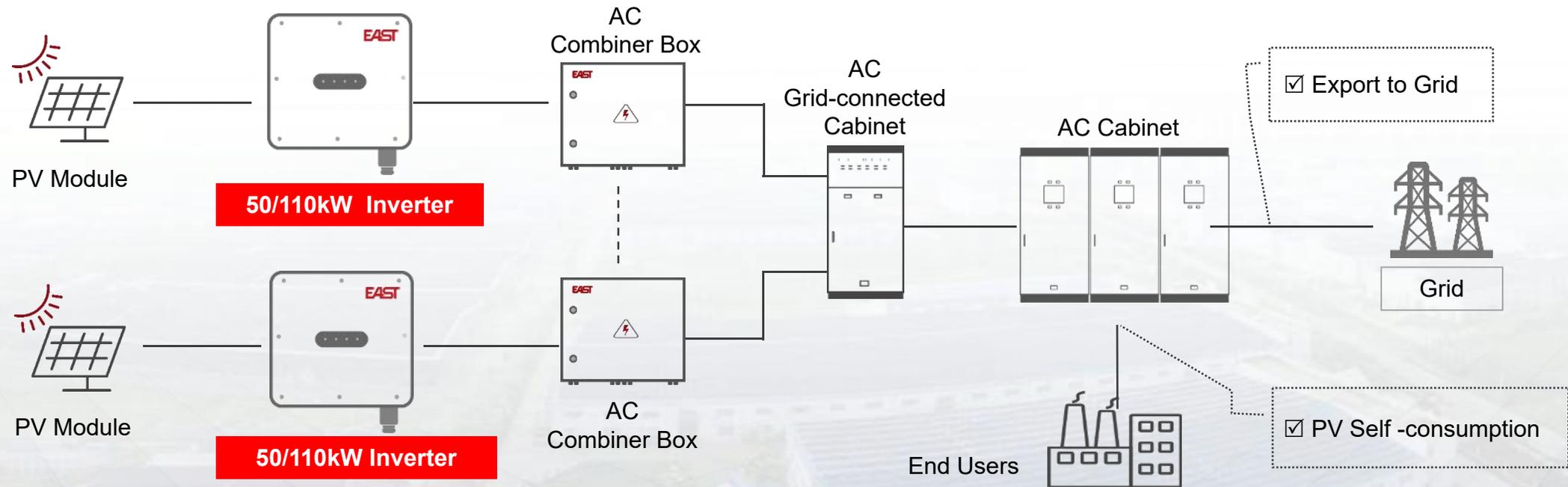
## Cost-effective

- Communication interface based on High Bandwidth PLC , Cable Cost Down
- Subject to Aluminium Cable, Cable Cost Down
- Empowered by EAST SolarCloud

# 1100V String Inverter Solutions

**Applications:** ☉ Medium and small rooftop 400V Grid-tied scenarios

**Efficient Driving** × **Lean Management**  
**Long-term Revenue** × **Safe and Reliable**



# | 50kW/110kW **C&I** String Inverter

- ◆ 98.8% Efficiency
- ◆ Smart MPPT
- ◆ Smart PID
- ◆ IP65 Protection



EA50KTL5IW, EA110KTL5IW

## Generation Enhancement

- Max Efficiency 98.8%
- Multi-channel MPPT
- High-precision intelligent string inspection

## Safe & Reliable

- Excellent thermal management, 45°C w/t derating
- Integrated PID Module
- Integrated the AC&DC SPD, comprehensive surge protection

## Intelligent & User-friendly

- Subject to large current PV modules
- Subject to Aluminium Cable
- APP is available, real-time monitoring

## Cost-effective

- Optimize PV Array Layout, High PV DC-to-AC Ratio, Lower LCOE
- Empowered by EAST SolarCloud, O&M cost down

03

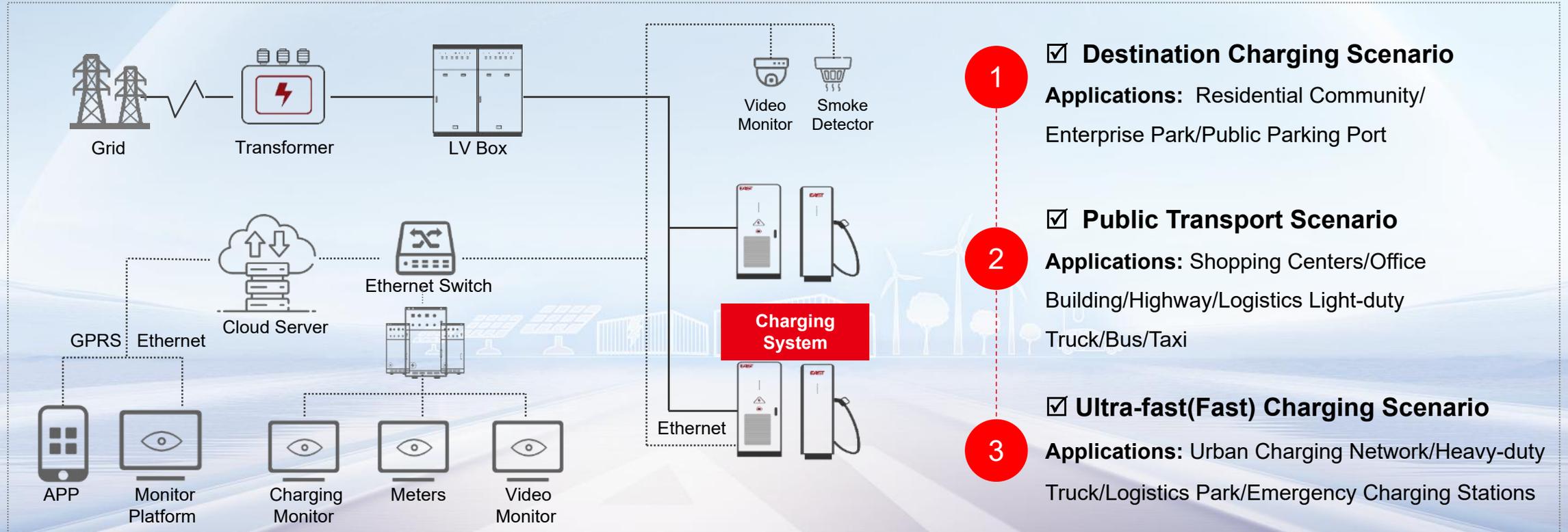
## Smart EV Charger Solutions

EAST Group strategic positioned EV Charger market, self-developed **7-960kW** charging products and solutions, featured as Intelligent & Safe, Efficient Charging and Competitive Lifetime; Regarding Success Stories **50,000 +** sites



# EAST Smart EV Charger Solutions

EAST offer a complete portfolio for complex charging power scenarios; within, liquid-cooled ultra-fast charging solution integrated with the advanced high power charging technology and intelligent EMS, to optimize energy management, charging activities and power allocation, support low-carbon transportation.



# 7kW-22kW **AC** EV Charger

**Applications:** ☉ For comprehensive residential scenarios ☉ Energy Arbitrage



7-22kW DC Charger Series



## Intelligent & Convenient

- WiFi, Bluetooth integrated, 4G module is available
- Digital connectivity, easy for charging terminals management
- Sequential charging, Optional for shared private charging facilities



## Energy Saving & Robust

- Standby Power Consumption limited to 3W, Energy Saving



## Easy to Use

- User-friendly interface to operate
- Small and easy-to-follow, Optional for Wall-mounted or Floor-mounted
- Seamless Payment Integration: one-click charging, Card Swiping and QR-code



## Safe & Reliable

- Insulation with different tough climates

# 20kW~240kW **Integrated** DC EV Charger

**Applications:** ⊙ For Service Stations and Urban Electric Buses...etc.      ⊙ Subject to fast charging scenario



20kW~240kW DC Integrated Series



## Intelligent & Convenient

- Seamless Payment Integration: one-click charging, Card Swiping, QR-code and VIN-code
- O&M platform real-time monitoring, multi-functional monitoring



## Energy Saving

- Max. Efficiency up to 96%, standby power consumption is limited to 15W, value-added solutions



## Safe & Reliable

- ≥75-layered safety protection, subject to remote OTA and diagnose, enable charging safety



## Full Flexibility

- Wide voltage range from
- 200V ~ 1000V, compatible with all sorts of EVs

# 240kW~480kW **Integrated** DC EV Charger

**Applications:** ⊙ Heavy-duty vehicles in mining areas...etc   ⊙ Logistic fleet   ⊙ Ports   ⊙ Urban Electric Buses



240kW~480kW DC Integrated Series

## **Suitable for Ultra-fast Charger**

- Solo 300A, Dual 600A, fast charging
- Wide voltage range from 50-1000VDC, compatible with all sorts of EVs
- Full Flexibility: 480kW/400kW/360kW/320kW/240kW

## **Effective & Compatible**

- Subject to remote diagnostics and OTA, AI-driven forecast, max. Efficiency 97%+, Optimize Operation Revenues
- Compatible with 12/24V EV BMS, Self-adaptive Solo and/or Dual Charging

## **Safe & Reliable**

- Multiple safety protection, real-time automatic inspection, ensure human-machine safety
- Insulation with tough applications: Salt, High Altitude, Dust, High Temperature and Low Temperature...etc.

# | 240kW~480kW **Group** DC EV Charger

- Applications:**
- ⊙ Charging power centralized management, smart shared charging by demands...etc.
  - ⊙ Fast charging during daytime and spread the charging out over the night when the fleet of vehicle is parked.
  - ⊙ Ultra-fast charging scenario



240kW~480kW DC Group Charging Series



## Intelligent & Convenient

- Seamless Payment Integration: one-click charging, Card Swiping, QR-code and VIN-code
- Remote monitoring



## Efficient Energy Saving

- Charging modules centralized management, sharing services, Charging power sequential dispatch, smart power allocation
- Single charging terminal, deliver up to 600A of current and a full charge in less than 5 minutes, add up to 200km



## Safe & Reliable

- ≥75-layered safety protection, subject to remote software upgrade & diagnose



## Full Flexibility

- Wide voltage range from 200V ~ 1000V, compatible with all sorts of EVs

# 400kW~720kW **Group** DC EV Charger

**Applications:** ◎ Fast charging for long-distance transportation and logistics ◎ Highway and Emergency charging  
◎ Commercial and parking facilities



400kW~720kW DC Group Charging Series

## High Compatible

- 720kW/600kW/500kW/480kW/400kW, flexible to dispatch, with up to 1.44MW to expand

## Grid Friendly

- Loads constraint function is available

## Compact Footprint

- 720kW charger with a footprint of 0.78m<sup>2</sup>

## Cost-effective

- Cost down 20%, Competitive ROI

# 800kW/960kW **Group** DC EV Charger

- Applications:**
- ⊙ Commercial and Residential charging stations
  - ⊙ Public fast charging stations
  - ⊙ Special Vehicles
  - ⊙ Bus charging stations...etc



800kW/960kW DC Group Charging Series

## **Safety Protection:** Multi-layered Protection, Intelligent

- 54-layered safety protection, support connected services, remote diagnostics and OTA

## **Full Flexibility:** Wide Voltage Range, Compatible

- Voltage range from 200V~1000V, compatible with all sorts of EVs

## **Efficient Energy Saving:** Full-matrix, Efficient

- Group Management & Control Charging Modules, scheduled and well-organized to dispatch charging power, flexible to deploy Fast/Ultra-fast charging terminals

## **Excellent thermal management:** Excellent Thermal, Low Temp

- Increase the lateral width, broaden the air intake channel, facility running perfectly

# High-power DC Charging Modules

The VOC of EV charging market is featured as **Higher Cost, Lower Efficiency, Tough Heat Dissipation, Loud Noise** and **Power Grid** impacts, EAST took the challenge and offered high power DC fast charging solutions to benchmark liquid-cooled products to refresh the EV. charging industry.



系统成本降低10%-15%  
System Cost Down 10%-15%



低噪音, 小于60dBA  
Low noisy, Less than 60dBA



模块终身质保  
Max.Efficiency 97%



峰值效率97%  
Max.Efficiency 97%



**40kW Charging Module**  
Low Noise 55dBA



**50kW Charging Module**  
Flexible Options



**55kW Charging Module**  
Suitable for commercial fleet



**60kW Charging Module**  
Suitable for commercial fleet

## 04

## PV & BESS & EVCS & Generator Total Solutions

EAST innovative total solutions of **PV & BESS & EVCS**, fully integrated with PV system, **BESS, EV Chargers**, Diesel generators and **Cloud-based EMS**, enable energy efficient utilization and intelligent management.



PV



EVCS



BESS

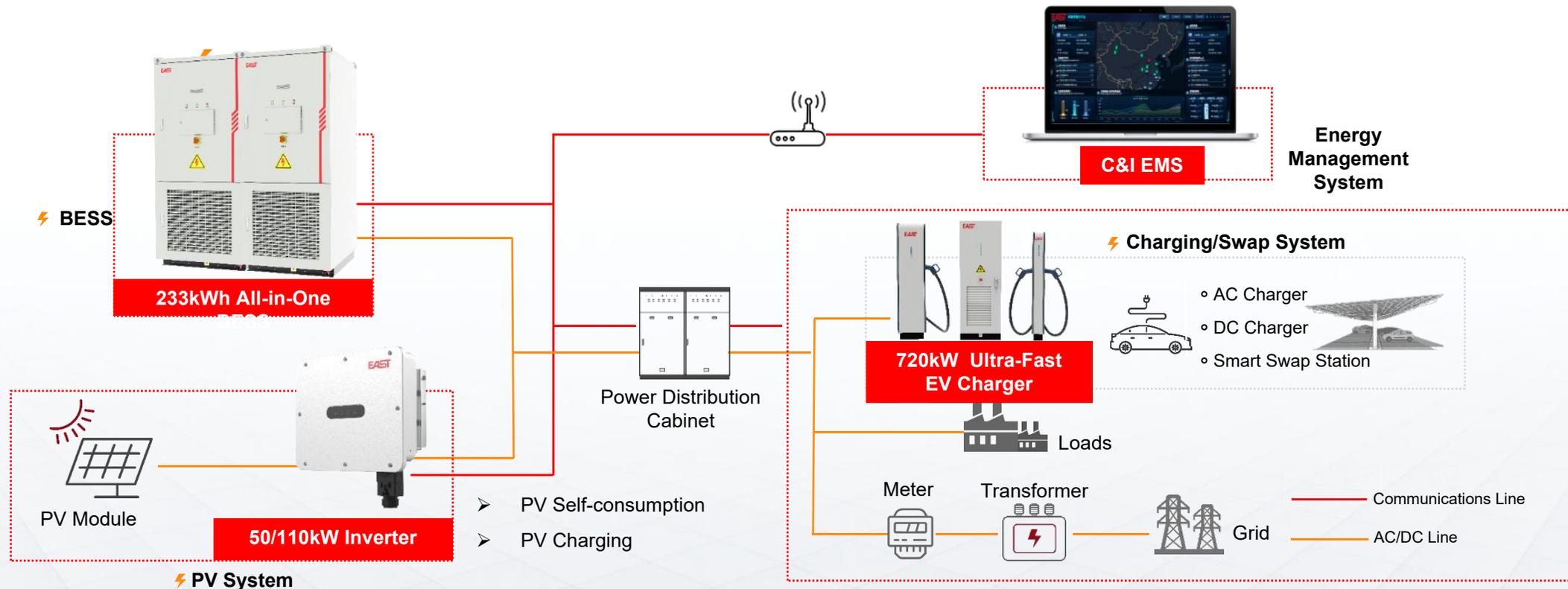


Diesel Generator

# PV & BESS & EVCS Total Solutions

**Applications:** ☉ Subject to light industries, commercial, comprehensive energy stations and other small C&I scenarios

\* such as Textile Industry, Electronic Industry, PV & BESS & EVCS integrated stations and comprehensive commercial facilities...etc.



# PV & BESS & EVCS High-integrated Competitive Advantages

Fully integrated with BESS, PV System and EV charging stations, leverage the BESS resources to realize power bi-directional regulation for grid connectivity, optimize PV self-consumption, reduce load impacts on transformers result in high power facilities such as EV chargers, realize peak-shaving and loads-shifting and Maximize the satisfaction of charging requirements.



## High Efficiency

High integrated, On/Off-grid switch, Efficient output,  
Overall efficiency improve **4%+**



## Intelligent Dispatch

AI-driven coordinate and dispatch various systems,  
**100% PV Self-consumption**, EV charger usage optimize  
**25%**, Transformer capacity lower **40%**



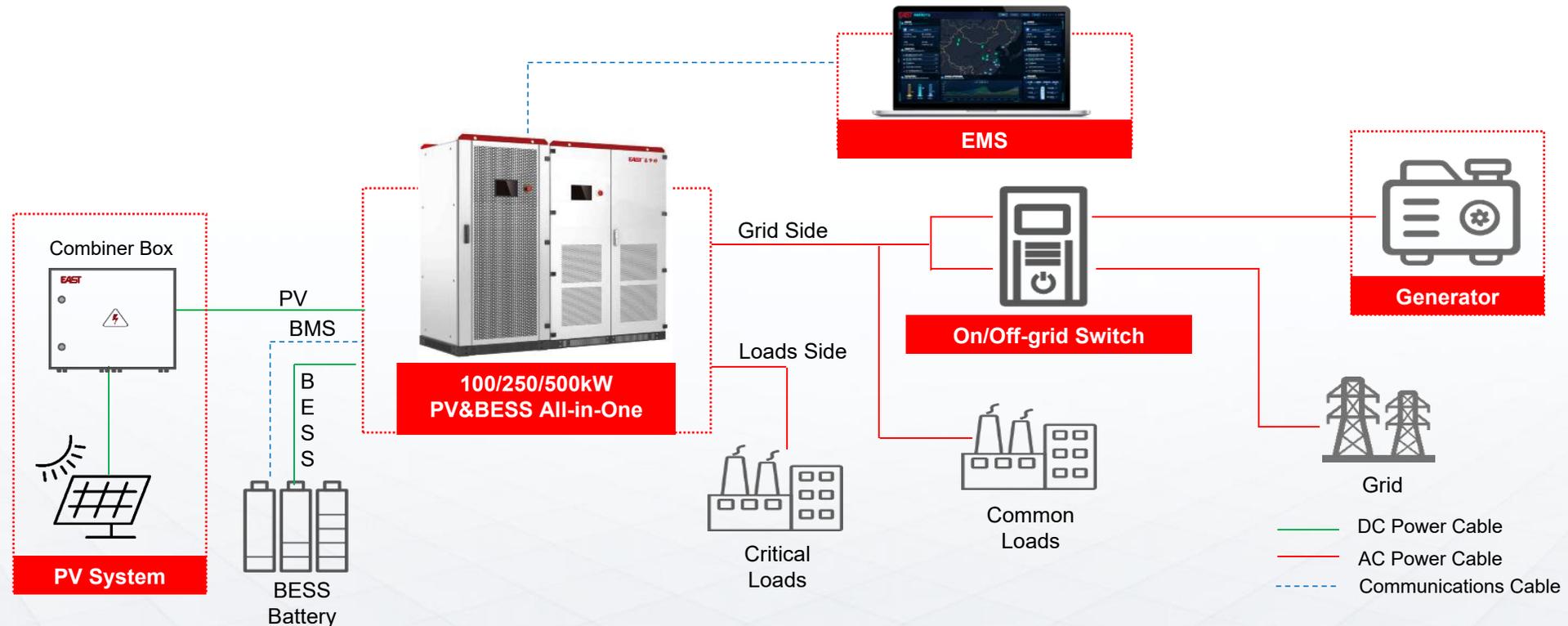
## Industry Pioneer

Highly integrated with software and hardware, multiple connections available, highly integrated the Power blocks of BESS and EVCS, **Industry Pioneer!**



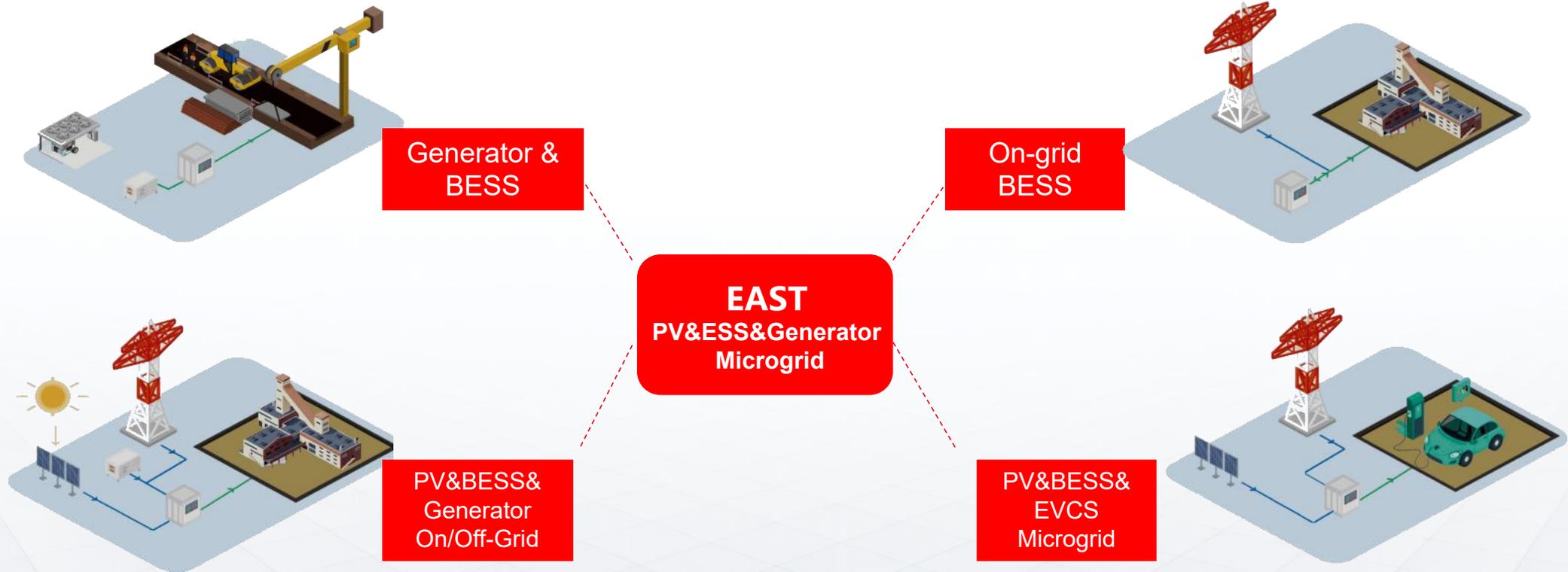
# PV & BESS & Generator Microgrid Total Solutions

- Applications:**
- ⊙ Off-grid low-powered infrastructure (e.g. remote village)
  - ⊙ Emergency power supply scenarios(e.g. healthcare and disaster relief)
  - ⊙ Commercial and Industrial Sites(e.g. small plants and comprehensive commercial facilities)



# PV & BESS & Generator Microgrid Solutions

Given the challenged scenarios related to high energy consumption, leverage the resources of PV station, BESS and standby diesel generator, to cost down, optimize power supply resilience and reduce dependence on conventional power grid. Enable operation certainty.



# 05

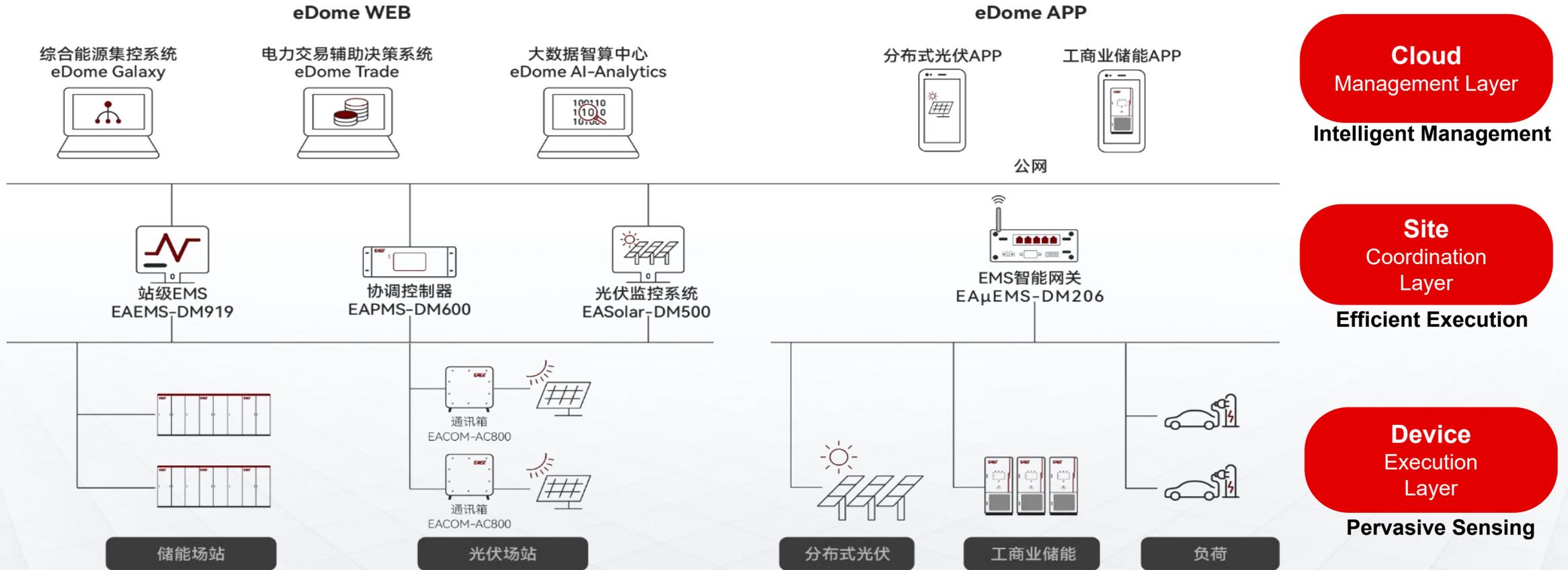
## AI+ Energy Management Solutions

EAST **AI+EMS** solutions integrated with **Cloud**(Energy Management Platform), **Site** (Site-level Energy Management Products) and **Device**(Execution Products),intelligent empowered by DeepSeek and BIG Data,focus on **Utility-scale BESS, C&I BESS** and **PV & BESS & EVCS scenarios**,suitable for Group-level power stations centralized monitoring, O&M, VPP and Data Lake.



Brochure

# Smart Energy Management Platform(eDome) **One-for-All** Topology



# Three Management Platform

# Cloud-based Connectivity, Value-added Solutions



## eDome Galaxy Comprehensive EMS Platform

- Cross-sites Management
- BESS Monitoring
- Wind/Solar Monitoring
- EVCS Monitoring
- Smart O&M
- Carbon Asset Management

## eDome Trade Auxiliary Trading Operation

- Data Integration and Pre-assessment
- Price Forecasting and Bidding Optimization
- Optimize Decision-making
- Monitoring and Decision Execution
- Risk Management
- Energy arbitrage running test

## eDome AI Analytic Big Data Center

- System Top-down monitoring and evaluation
- Smart Fault Detection & Diagnostics and Proactive Alarm
- Integrated with deepdive neural network, MLP and Big Data.

# leDome Series- BESS Energy Management System



## Intelligent & Efficient

- SOC Smart Balance, Minimize Battery Capacity Lose
- Panoramic surveillance, Real-time Fault Detection & Precise Diagnostics
- Big Data Analysis and AI-driven approaches

## Rapid Response

- 4S-based self-design, data input/output directly
- Primary frequency regulation response time < 20ms
- Second-level Reliable Data Acquisition and Storage

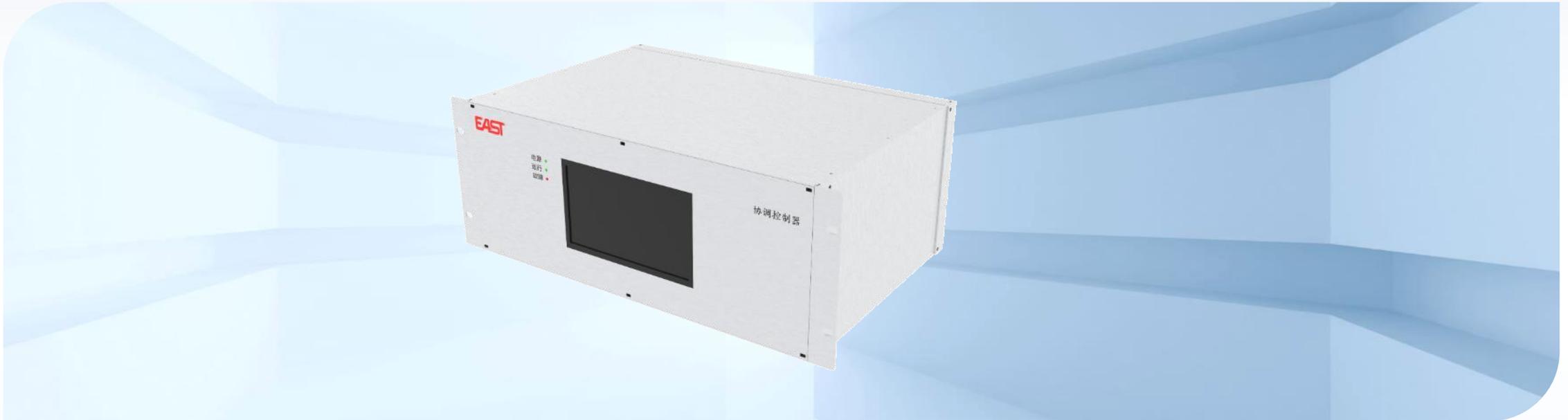
## Full Flexibility

- Subject to primary frequency regulation, dynamic voltage regulation, AGC/AVC, Peak-shaving and Load-shifting, demands control to smooth...etc.

## Safe & Reliable

- Control network and data network are independently redundant, Four-network communication architecture
- Critical facility with redundancy, Master device seamless switch, system running safely and reliably

# | eDome Series- PMS



## High Speed GOOSE

- Subject to GOOSE network,enable quick communications,interval $\leq$  2ms

## Ms-level Monitoring & Control

- Grid frequency sampling, calculating interval  $<10$ ms
- Primary frequency regulation, actuation time  $\leq 20$ ms

## Powerful Coordination and Control Capabilities

- With up to 128 units PCS for single block available
- Smart SOC balancing
- Comprehensive synergy and control Integrated of generation, grid, load and storage

# leDome Series- Smart Gateway



## Multi-functional Features

- 64-bit Processor, ARM architecture, up to 2.0GHz, regional autonomy
- Suitable for Peak-shaving, Load shifting, Demands control, reverse power protection, Plan tracking, Power smoothing...etc.
- 4 runs independent IP port, suitable for power station dual-network and dedicated GOOSE network



## Full Flexibility

- Communication Protocol, compatible with 103, 104, IEC61850, GOOSE and Modbus...etc
- Supported Protocols: 6 runs RS485, Extensible IO/transmitters and 4G Module



## Expertise & Reliable

- Industrial-grade critical PCBA, maintenance-free design without air forced cooling fans
- RT-linux system, ms-level data acquisition and process
- Industrial-grade rigorous testing, performance stable and reliable

# PART 04

## Success Stories

Power Generation | Grid-scale | Commercial & Industrial



Success Stories

Success Stories 8GWh +



# Power Generation Success Stories **PV Inverters**

**Applications:** centralized and distributed PV projects, installed bases **2GW+**



# Power Generation Success Stories **Renewable Energy BESS**

**Applications:** BESS for Solar, BESS for Wind and BESS for Peak Shaving and Frequency Regulation



**300MW/1200MWh**

CHD Tianshan 6.1GW Renewable Energy Base Project with BESS



**125MW/500MWh**

CNNC Northwest 1GW Wind Farm with BESS



**40MW/80MWh**

SPIC Inner Mongolia Dengkou 100MW Solar Farm with BESS



**15MW/60MWh**

Zhangye Linze Phase1 100MW Wind Farm with BESS



**15MW/60MWh**

Shandan Dongle 100MW Solar Farm with BESS

# Grid Side Success Stories **Standalone BESS**

**Applications:** Standalone/Shared BESS stations



**100MW/200MWh**  
CNNP Chongqing BESS station



**155MW/369.52MWh**  
EAST Group Qidong BESS station



**300MW/600MWh**  
CSG Baotang Grid-scale Standalone BESS Station



**50MW/100MWh**  
Sanmenxia Hubin Shared BESS station



**103MW/206MWh**  
China Three Gorges Guangxi Shared station

# End User Success Stories **C&I BESS**

**Applications:** industrial parks, large-scale commercial facilities, data center, 5G base station, highway and microgrids.



**4.95MW/10.07MWh**  
Zhejiang Sanmei Chemical Project



**10MW/20MWh**  
Tangshan Kuchi Renewable Energy C&I Project



**3MW/6.99MWh**  
Zhejiang Yuhuan Sugeqiang C&I Project



**3.58MW/8.17MWh**  
Yufeng C&I Project



**1.4MW/3.01MWh**  
Yiquan Technical Park C&I Project



**2.9MW/6.23MWh**  
Yining PV & ESS & EVCS Integrated Project

# End User Success Stories **EV Charger Solutions**

**Applications:** served CSG, Sinopec and CNPC for charging stations...etc, installed bases 50,000+ sites



**Sinopec**  
Annual F-A Charging Stations



**CNPC**  
CNPC New Charging Stations



**Electric Power Company**  
Italian EnelX AC Charging Stations



**EV Top Player**  
XPEV Charging Stations



**Public Charging Station**  
Egypt—The 27th United Nations Climate Conference



**CSG**  
CSG Charging Stations

**EAST** 易事特

源于东方智慧 引领储能科技

# Innovative Total Solutions(PV\*ESS\*EVCS) Provider



**EAST**

EAST Energy Storage Technology Co.,Ltd