

GLOBAL SMART ENERGY STORAGE SOLUTIONS PROVIDER

Powering a Sustainable Future

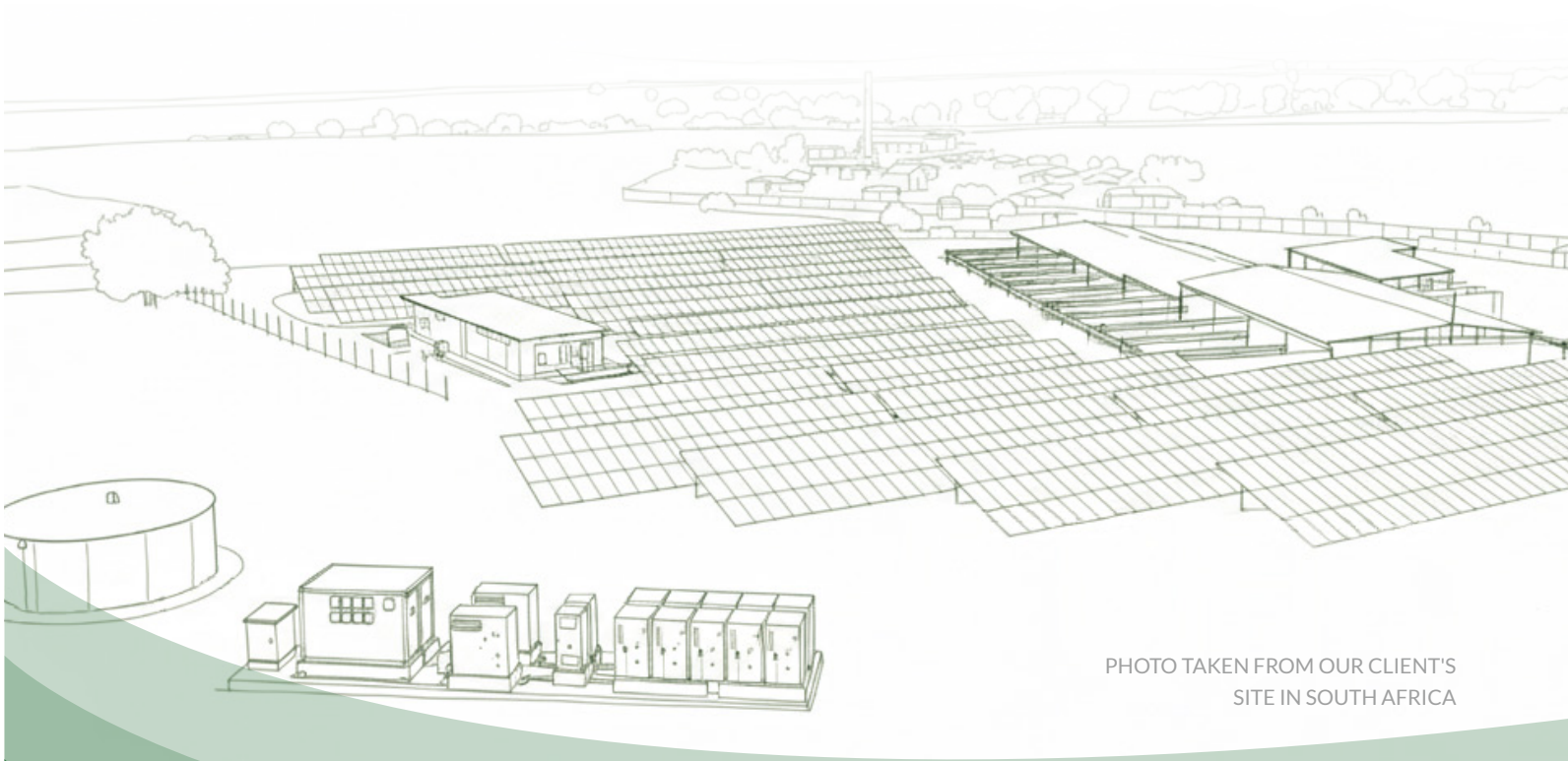


PHOTO TAKEN FROM OUR CLIENT'S
SITE IN SOUTH AFRICA

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FOR GLOBAL PARTNERS
& STAKEHOLDERS



ABOUT TWS TECHNOLOGY

POWERING A SUSTAINABLE FUTURE

TWS Technology, founded in 1998 and entered the ESS field in 2019, is committed to providing reliable energy storage solutions for the global energy transition. Driven by continuous innovation and long-termism, TWS Technology continuously launches an extensive portfolio of energy storage products, ranging from cabinet-level units to containerized systems, to satisfy diversified and dynamic energy storage needs. These solutions have been successfully deployed in numerous benchmark projects of top-tier customers globally, covering all application scenarios across power, grid, and user sides.



28

Years
Of Experience



6

Global Tech
Centers



5

Factories



13

GWh Group Annual
Production Capacity



ESG & CARBON FOOTPRINT

Certified Products

Provincial Green Factory



E

ENVIRONMENTAL PILLARS

25% lower energy consumption in production
Full product life cycle carbon footprint tracking
Established spent battery recycling program



S

SOCIAL RESPONSIBILITY

Supporting local employment in overseas markets
Comprehensive employee skill development and training
Corporate clean energy initiatives
Free employee access to charging facilities



G

GLOBAL CERTIFICATIONS & AWARDS

Certified green factory status
Product and emissions certifications (e.g., carbon footprint, greenhouse gas)
Certified management systems (environmental, occupational health, and quality)
Globally recognized industry awards and government listings



TWS Technology ESS has established international-standard carbon footprint management, laying a solid foundation for EU regulatory compliance and global market growth.



RANKING

DC BESS Shipments in China in 2023

NO.5

BESS Shipments in China in 2022

NO.5



HONORS

Top 500 Global Renewable Energy Companies

NO.343

Top 10 Brands of Energy Storage System Integration



Employees
200+



Global R&D Team
50+



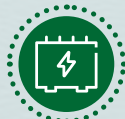
ESS Annual Production Capacity
10GWh+



Global Reach
20+



Global Service & Support
28 Years



Total Commissioned Capacity as of 2025
8GWh

Next-Gen Products & R&D Highlights

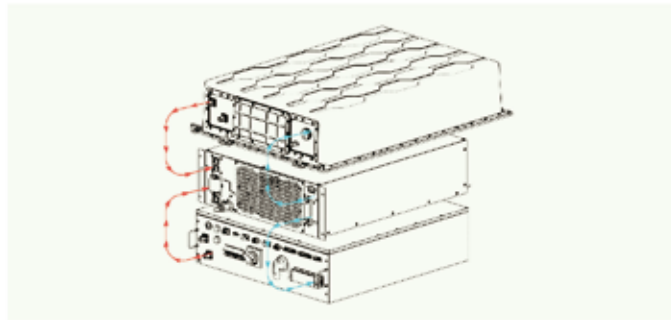
DUAL LIQUID COOLING SYSTEM

Integrated design for optimized performance and cost efficiency

THERMAL MANAGEMENT

Integrated Thermal Management:

- Shared liquid cooling unit for both the battery pack and PCS
- Centralized cooling with dynamic temperature control
- Ensuring unified thermal management



ELECTRICAL INTEGRATION

Integrated Electrical System:

- High voltage box integrated with AC power distribution
- Uses primary and secondary fusion technology
- Minimizing interfaces and overall system complexity



MULTI-DIMENSIONAL OPTIMIZATION

15%

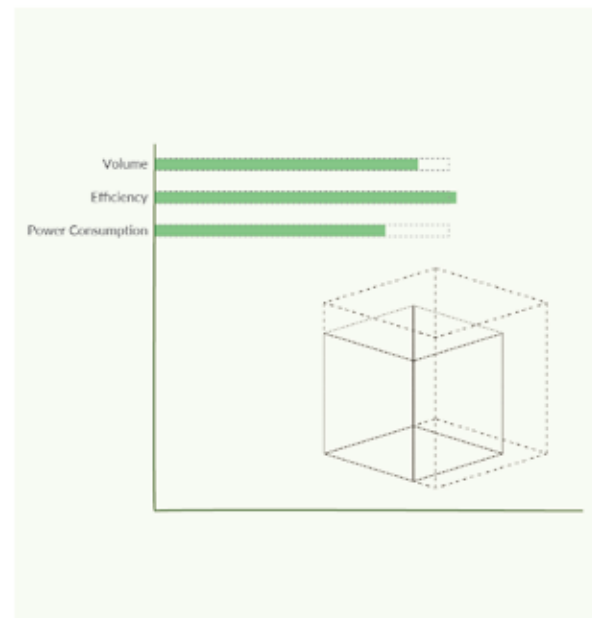
Volume reduction (fits standard containers)

0.2%

Increase in single unit cycle efficiency

30%

Reduction in auxiliary power consumption



ULTRA-LOW NOISE DESIGN

Ultra-low noise control below 65dB.

Quiet operation enhanced by multiple technologies.



ACOUSTIC ISOLATION

Acoustic Material Integration:

Sound absorbing cotton and insulation boards embedded in the shell and core components



COMPONENT OPTIMIZATION

Optimized flow channels and selection of low-noise components (compressors and pumps)



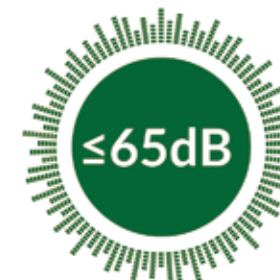
VIBRATION DAMPENING

Vibration dampening design on noise sources (pads or shock absorbers)



SMART FREQUENCY ADJUSTMENT

Intelligent variable frequency adjustment. Dynamic speed control based on load to suppress noise.

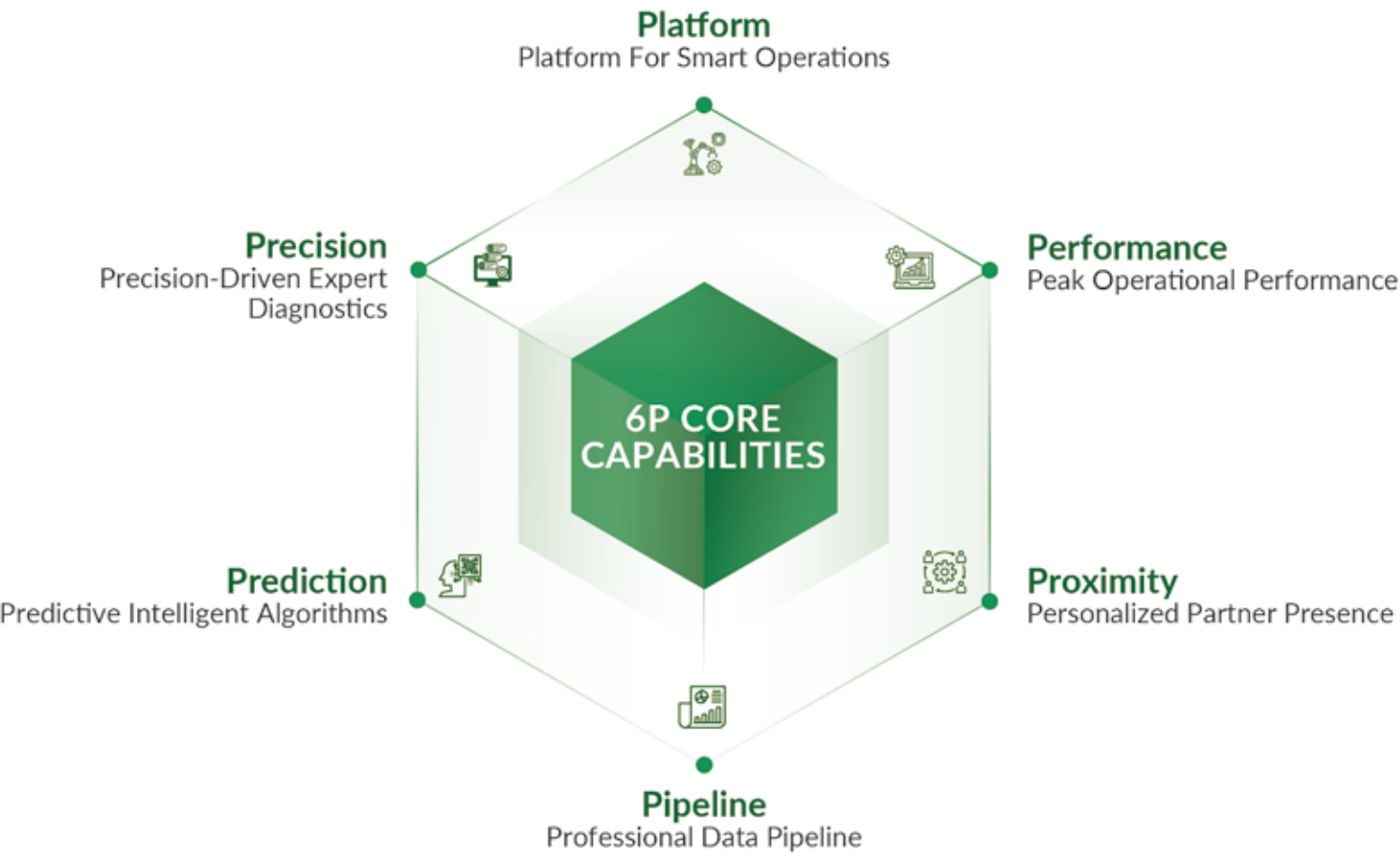
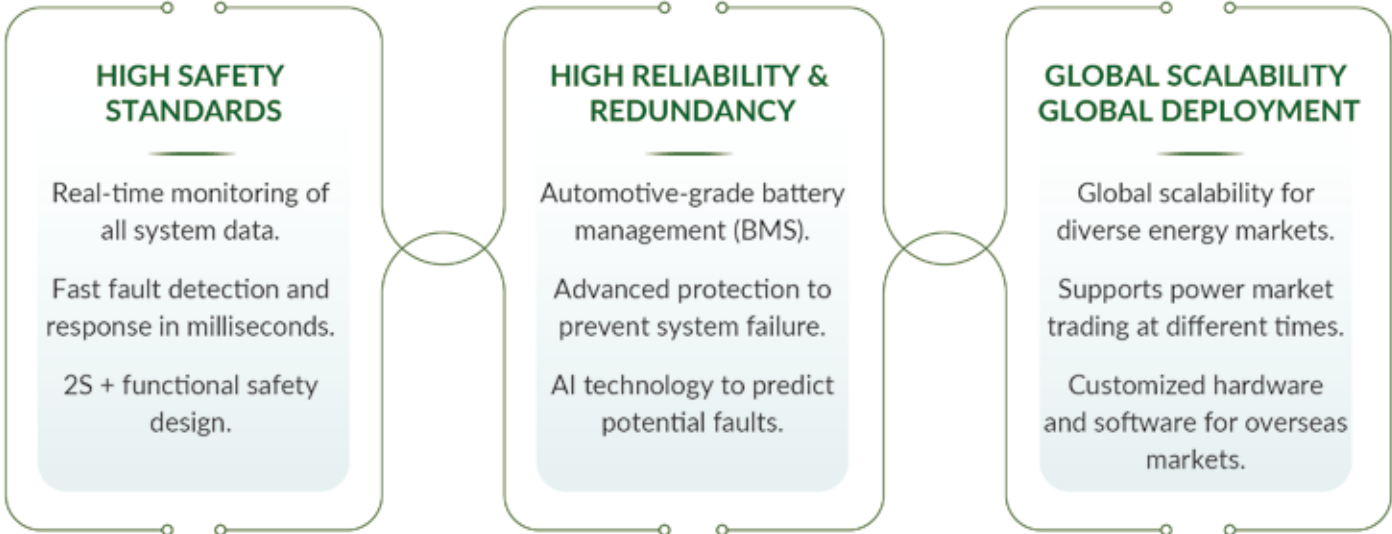


Equivalent to the volume of a daily conversation
Running quietly without disturbing the environment



CLOUD-EDGE- TERMINAL PLATFORM

Our In-house Integrated Management System



CLOUD-EDGE-TERMINAL PLATFORM Our In-house Integrated Management System



SOLUTION VALUE PROPOSITION

LARGE-SCALE ENERGY STORAGE APPLICATIONS

The diagram illustrates a large-scale energy storage system architecture. It features an MV BUSBAR connected to an EMS, Local SCADA, and Cloud Platform. The system includes multiple PCS-MV-Skid units (#1 to #n), each with its own Local Controller, and an Inverter-Boosting-Skid. These are connected to BATTERY and PV sources. The system also interfaces with an HV Transformer and the GRID. A legend indicates AC Power (green), DC Power (orange), and Data Information (blue).

- BATTERY PRODUCT SERIES
 - POWERCORE
- PCS
 - CENTRALIZED PCS-MV-SKID
 - STRING-TYPE PCS-MV SKID

MEDIUM AND LARGE-SCALE INDUSTRIAL AND COMMERCIAL APPLICATIONS

The diagram shows a medium and large-scale industrial and commercial application. It includes an MV BUSBAR connected to an EMS Local Controller, Cloud Platform, and Lean Operations Management. The system features a Network Switch, Transformer and Switchgear, and various loads: BATTERY, PV, WIND, EV, C&I LOAD, and EPS LOAD. A legend indicates AC Power (green), DC Power (orange), and Data Information (blue).

- BATTERY PRODUCT SERIES
 - PROEM-C3
 - POWERMOD
 - POWERCORE
- PCS-MV-SKID (OPTIONAL)
 - CENTRALIZED PCS-MV-SKID
 - STRING-TYPE PCS-MV SKID

SMALL-SCALE INDUSTRIAL AND COMMERCIAL APPLICATIONS

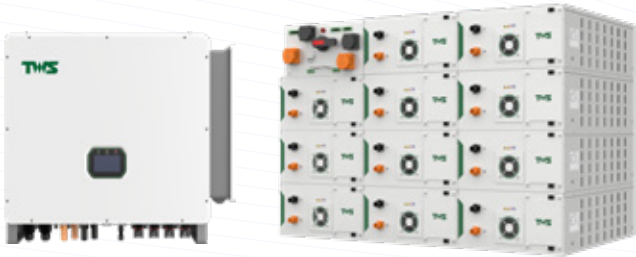
The diagram depicts a small-scale industrial and commercial application. It features an LV BUSBAR connected to an EMS Local Controller, Cloud Platform, and Lean Operation. The system includes a Hybrid Inverter, Inverter, Charging Pile, and Switchgear, connected to BATTERY, PV, EV, C&I LOAD, and EPS LOAD. A legend indicates AC Power (green), DC Power (orange), and Data Information (blue).

- BATTERY PRODUCT SERIES
 - MAX-CLASSIC
 - PROEM-C3
- BATTERY AC/DC INTEGRATED SERIES
 - FIT SERIES
 - MAX-SOLARIS
 - MAX-PRO
 - POWERM-PRO
 - VERSACHARGE STATION T7
 - VERSACHARGE STATION T9

OUR PRODUCT PORTFOLIO



FIT SERIES
PV & ENERGY
STORAGE SYSTEM



Cost-Effective, Budget-Friendly

Lightweight stacking cuts overall project costs.
Modular design lowers initial investment.

Compact Modules for Flexible Deployment

Compact battery units reduce reliance on heavy lifting machinery.
Easy on-site positioning adapts to any space constraints.

Flexible Stacking, Scalable Capacity

Free stacking supports multi-rack parallel expansion for tailored capacity.
External hybrid inverter fits diverse power demands.

Streamlined O&M, Efficient Servicing

Independent layout allows quick isolation and replacement of faulty units.
Layered air-cooling simplifies inspection and unit disassembly.

Product Model	Fit-110	Fit-160	Fit-200
Rack Parameters			
Cell type	LFP 314Ah		
Pack configuration	1P16S		
Pack rated voltage	51.2V		
Pack dimensions (W*H*D)	445mm * 808.5mm * 227.5mm		
Pack capacity	16.07kWh		
Pack quantity	7	10	13
Rack capacity	112.53kWh	160.76kWh	208.98kWh
Rack rated voltage	358.4V	512V	665.6V
Rack voltage range	313.6V ~ 397.6V	448V ~ 568V	582.4V ~ 738.4V
Weight	770kg	1100kg	1430kg
Ingress protection	IP20		
Anti-corrosion grade	C4-M		
Operating ambient humidity	5%~85%		
Operating ambient temperature	0°C~45°C		
Max. operating altitude	≤2000m		
Rack cooling method	Air-cooling		
Communication interface	CAN / LAN		
Communication protocol	CAN2.0B / Modbus TCP		
Hybrid inverter parameters			
DC input (PV side)			
Recommended max. PV array size	100kW	160kW	200kW
Max. usable PV input power	100kW	160kW	200kW
Max. input voltage	1000V		
Rated voltage	620V	600V	
Start-up voltage	180V		
MPPT voltage range	150V~950V		

Product Model	Fit-110	Fit-160	Fit-200
Max. input current	40A x 4 / 40A x 6	42A x 10	
Max. short circuit current	60A x 4 / 60A x 6	60A x 10	
Number of MPPT/Number of max. input strings	4 MPPT / 8 strings	10 MPPT / 20 strings	
Battery			
Battery type	LFP		
Battery voltage range	150V~950V	180V~950V	
Max. charging/discharging current	160A / 80A x 2	200A / 100A+100A	
Number of battery ports	1 / 2		
Max. charging/discharging current for each port	160A / 80A	200A / 100A	
Communication	CAN / RS485		
AC output (emergency)			
Rated output power	50kW	80kW	100kW
Max. apparent output power	1.5 times of rated power, 10s; 1.6 times of rated power, 0.2s	16 times of rated power; 2 times of rated power, 0.2s	
Emergency switch time	<10ms		
Rated output voltage	380V/400V/415V, 3P4W		
Rated frequency	50Hz/60Hz		
THDu (@linear load)	<3%	<2%	
AC input (Grid side)			
Max. input current	182.3A	243.1A	300A
AC input (Generator)			
Rated input voltage	380V/400V/415V, 3P4W		
Rated input frequency	50Hz/60Hz		
AC output (Grid side)			
Rated output power	50kW	80kW	100kW
Max. apparent output power	55kVA	88kVA	110kVA
Rated grid voltage	380V/400V/415V, 3P4W		
Rated grid frequency	50Hz/60Hz		
Rated grid output current	76A/72.2A/69.6A	121.5A/115.5A/111.3A	151.9A/144.3A/139.1A
Power factor	>0.99 (1 leading~1 lagging)	>0.99 (0.8 leading~0.8 lagging)	
THDi	<3% (Linear load<1.5%)	<2%	
Efficiency			
Max. efficiency	98%	97.8%	
General specification			
Dimensions (W*H*D)	600mm × 970mm × 290mm	971.5mm x 880mm x 311mm	
Weight	96kg	<150kg	
Topology	Transformerless		
Operating ambient temperature	-40℃~60℃ (derated over 45℃)	-40℃~60℃ (derated over 50℃)	
Relative humidity	0%~95% RH	0%~100% RH	
Ingress protection	IP66		
Cooling method	Intelligent air cooling		
Max. operating altitude	4000m (derated above 2000m)	4000m (derated above 3000m)	
Grid connection standard	EN 50549-1&2/EN 50549-10, VDE-AR-N 4105, NTS 631, CEI 0-21, C10/11, NRS 097-2-1, TOR, G99, IEC 62116, IEC 61727, MEA, PEA, etc.*		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4		
Communication interface	Standard: Wi-Fi + Bluetooth, CAN-BMS×1, CAN-Parallel ×2, LAN, RS485-Meter, EMS-RS485×1, CAN-EMS×1, DRM, DI×5, DO×6 Optional: 4G (alternative to Wi-Fi, WIFI is default)	Standard: WiFi + Bluetooth, CAN-BMS×2, CAN-Parallel ×2, LAN, RS485-Meter, RS485, DRM, DI×5, DO×5 Optional: 4G (alternative to Wi-Fi, WIFI is default)	

MAX-PRO C&I OUTDOOR LIQUID-COOLING ENERGY STORAGE CABINET



Adaptive To Harsh Environments

Resists extreme cold and heat
Intelligent internal dehumidification
prevents condensation

Modular Design For Easy Construction

Allows parallel connection of multiple
cabinets; Easy expansion and central-
ized control
EMS generates optimal operation
strategy; Factory pre-commissioned;
Plug and play on site

Small Size, Big Energy

High Energy Density (21% greater)
Compact footprint: 1.28 m²

Good-Quality Cells

315Ah cells ensure superb safety and long
life cycle
High energy efficiency (≥95%)

Smart And User-Friendly

Accessible to the cloud platform for re-
mote monitoring.
Smart and wireless; Supports remote
upgrades

Product Model	Max-Pro
Cell parameters	
Type	LFP 315Ah
Cell configuration	1P260S
Rated energy at DC side	262kWh
Voltage range	728V~923V
PCS parameters	
Rated output power	125kW
Max. output power	138kW
THDi	<2% (rated power)
Rated power grid voltage	230Vac/400Vac
Allowable voltage deviation	-15%~+15%
Max. current	200A
Rated power grid frequency	50Hz/60Hz (which can be set)
DC component	<0.5%
Overload capacity	110% long-term
System parameters	
Dimensions (W*D*H)	950mm*1400mm*2330mm
Weight	2600kg
Ingress protection rating	IP55
Auxiliary power supply	Self-powered
Anti-corrosion grade	C4-M
Operating ambient humidity	0%~95% (non-condensing)
Operating ambient temperature	-20°C~55°C (derated over 45 °C)
Max. operating altitude	4000m (derated above 2000m)
Cooling method	Liquid-cooling
Fire protection	Aerosol + combustible gas detection + ventilation + water extinguishing system
Communication interface	LAN
Communication protocol	Modbus TCP
Certification	IEC62619, IEC63056, IEC62477, IEC62933, EN61000, UL9540A, UN38.3, CEI 0-21, CEI 0-16

MAX-CLASSIC C&I OUTDOOR LIQUID-COOLING ENERGY STORAGE CABINET



Adaptive To Harsh Environments

Resists extreme cold and heat
Intelligent internal dehumidification
prevents condensation

Good-Quality Cells

315Ah cells ensure superb safety and
long life cycle
High energy efficiency (≥95%)

Small Size, Big Energy

High Energy Density (21% greater)
Compact footprint: 1.28 m²

Modular Design For Easy Construction

Allows parallel connection of multiple cabi-
nets; Easy expansion and centralized control.
EMS generates optimal operation strategy;
Factory pre-commissioned; Plug and play on
site

Smart And User-Friendly

Smart and wireless; Supports remote
upgrades

Product Model	Max-Classic
Cell parameters	
Type	LFP 315Ah
Cell configuration	1P260S
Rated energy at DC side	262kWh
Voltage range	728V~923V
System parameters	
Dimensions (W*D*H)	950mm*1400mm*2120mm
Weight	2400kg
Ingress protection rating	IP55
Auxiliary power supply	External power supply
Anti-corrosion grade	C4-M
Operating ambient humidity	0%~95% (non-condensing)
Operating ambient temperature	-20°C~55°C
Max. operating altitude	4000m
Cooling method	Liquid-cooling
Fire protection	Aerosol + combustible gas detection + ventilation + water extinguishing system
Communication interface	LAN
Communication protocol	Modbus TCP
Certification	IEC62619, IEC63056, IEC62477, EN61000, UL1973, UL9540A, UN38.3

MAX-SOLARIS
INTELLI-PV ESS CABINET



Multi-Dimensional Integration

Advanced DC coupling seamlessly integrates PV and storage.
20ms auto-switching between grid-connected and off-grid modes.

Intelligent Energy

Supports multiple strategies: self-consumption, peak loading shifting, and backup power supply.
Built-in EMS adapts flexibly to diverse scenarios.

Simple & User-Friendly

Compact design for easy installation.
Remote monitoring for effortless operation.

Product Model	Max-Solaris
Product Model	
Cabinet parameters	
Cabinet model	Max-Classic
Cell type	LFP 315Ah
Pack quantity	5
Cell Configuration	1P260S
Rated energy at DC side	262kWh
Voltage range	728V~923V
Cabinet dimensions (W*H*D)	950mm * 2120mm * 1400mm
Weight	2380kg
Ingress protection rating	IP55
Anti-corrosion grade	C4-M
Operating ambient humidity	0%~95% (non-condensing)
Operating ambient temperature	-20°C~55°C (derated over 45°C)
Max. operating altitude	4000m (derated above 2000m)
Cooling method	Liquid-cooling
Fire protection	Aerosol + combustible gas detection + ventilation + water extinguishing system
Communication interface	LAN
Communication protocol	Modbus TCP
Certification	IEC 62619, IEC 63056, IEC 62477, EN IEC 61000, UL 1973, UL 9540A, UN 38.3
Hybrid inverter parameters	
DC input (PV side)	
Recommended max. PV array size	250kW
Max. usable PV input power	250kW
Max. input voltage	1000V
Rated voltage	600V
Start-up voltage	180V

Product Model	Max-Solaris
MPPT voltage range	150V~950V
Max. input current	10*42A
Max. short circuit current	10*60A
Number of MPPT/ Number of max. input strings	10/20
AC output (Grid side)	
Rated output power	125kW
Max. apparent output power	125kVA
Rated grid voltage	3/N/PE, 220V/380V 3/N/PE, 230V/400V
Rated grid frequency	50Hz/60Hz
Rated grid output current	189.9A/180.4A
Power factor	>0.99 (0.8 leading ~ 0.8 lagging)
THDi	<3% (rated power)
AC input (Grid side)	
Max. input current	250A
Efficiency	
Max. efficiency	97.5%
General specification	
Dimensions (W*H*D)	1174mm * 814mm * 400mm
Weight	170kg
Cooling method	Intelligent redundant fan-cooling
Operating ambient temperature	-25°C~60°C
Max. operating altitude	3000m
Relative humidity	0%~100%
Noise	<70dB(A)
Ingress protection rating	IP66
Grid connection standard	G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1&2/ EN 50549-10, VDE 0126 / UTE C 15/ VFR:2019, NTS 631/RD 1699/RD 244 / UNE 206006 /UNE 206007-1, CEI 0-16, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, PORTARIA N° 140, DE 21 DE MARÇO DE 2022
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011

PROEM-C3 OUTDOOR
LIQUID-COOLING
ENERGY STORAGE CABINET



Low Maintenance

Modular design simplifies transportation and O&M.
Fully pre-assembled; minimal on-site integration required.

High Efficiency

Advanced liquid cooling keeps temperature difference within 3 °C
Supports parallel connection and easy system expansion.

System Safety

Intelligent monitoring and coordinated response ensure system safety.
Integrated cooling enhances thermal stability and performance.

Easy Deployment

All-in-one solution for commercial and industrial uses, PV + Storage, backup power, and microgrids.
Seamless transition between grid-connected and off-grid operations.

Product Model	ProeM-C3-208	ProeM-C3-261	ProeM-C3-313	ProeM-C3-365	ProeM-C3-417
Cell parameters					
Cell type	LFP				
Cell capacity	314 Ah				
PACK parameters					
Cell configuration	1P52S				
PACK rated voltage	166.4 V				
PACK energy	52.249 kWh				
Cabinet parameters					
System battery configuration	1P208S	1P260S	1P312S	1P364S	1P416S
PACK quantity	4	5	6	7	8
Rated energy (BOL) at DC side	208 kWh	261 kWh	313 kWh	365 kWh	417 kWh
System output voltage range	582.4~738.4 Vdc	728.0~923.0 Vdc	873.6~1107.6 Vdc	1019.2~1292.2 Vdc	1164.8~1476.8 Vdc
Rate for charging and discharging	≤0.5P				
Dimensions (H*W*D)	2300mm * 1330mm * 1350mm				
Weight	2160 kg	2500 kg	2840 kg	3180 kg	3520 kg
Ingress protection rating	IP55				
Anti-corrosion grade	C4-M				
Operating ambient humidity	0%~95% (non-condensing)				
Operating ambient temperature	-20°C~55°C				
Max. operating altitude	4000 m				
Cooling method	Liquid-cooling				
Fire protection	Aerosol + combustible gas detection + ventilation + water extinguishing system				
Communication interface	LAN				
Communication protocol	Modbus TCP				
Certification	IEC62619, IEC63056, IEC62477, EN IEC 61000, UL9540A, UL1973, UN38.3				

POWERMOD
LIQUID-COOLING ENERGY
STORAGE CONTAINER



Enhanced Safety

Triple-layer fire protection ensures early detection, accurate spraying, and rapid suppression.
Fire monitoring powered by big data analytics features comprehensive surveillance.
Predictive algorithms identify risks early for rapid, system-wide response.

Cost Efficiency

High-density 314/315Ah LFP cells extend cycle life and reduce cost per kWh by 30%.
Optimized size for cost-effective operation.
Ideal for small to medium commercial and industrial projects.

Flexible Deployment

10-foot container design allows rapid transport and deployment.
Scalable capacity supports on-demand expansion and optimized investment.

Product Model	PowerMod-1600	PowerMod-2000	PowerMod-2500
Cell parameters			
Cell type	LFP		
Cell capacity	314Ah/315Ah		
Pack parameters			
Cell configuration	1P104S		
Pack rated voltage	332.8V		
Pack rated energy	104.499kWh/104.832kWh		
Rack parameters			
Cell configuration	1P416S		
Pack quantity	4		
Rack rated energy	417.996kWh/419.328kWh		
System parameters			
Cell configuration	4P416S	5P416S	6P416S
Rated energy (BOL) at DC side	1671kWh	2089kWh	2507kWh
Voltage range	1164.8Vdc-1476.8Vdc		
Rate for charging and discharging	≤0.5P		
Dimensions (W*D*H)	3360mm * 2896mm * 2438mm		
Weight	17400kg	20110kg	22790kg
Ingress protection rating	IP55		
Anti-corrosion grade	C4/C5		
Operating ambient humidity	0%-95% (non-condensing)		
Operating ambient temperature	-20°C~55°C		
Max. operating altitude	4000m		
Cooling method	Liquid-cooling		
Fire safety configuration	Aerosol + combustible gas detection + ventilation + water extinguishing system		
Communication interface	LAN		
Communication protocol	Modbus TCP		
Certification	IEC62619, IEC63056, IEC62477, EN IEC61000, UL1973, UL9540A, UN38.3		

POWERCORE
LIQUID-COOLING ENERGY
STORAGE CONTAINER



Enhanced Safety

Triple-layer fire protection ensures early detection, accurate spraying, and rapid suppression.
Fire monitoring powered by big data analytics features comprehensive surveillance.
Predictive algorithms identify risks early for rapid, sytemwide response.

Cost Efficiency

314/315Ah LFP cells with high energy density extend cycle life and reduce cost per kWh by 30%.
5MWh capacity in a standard 20ft container.
Side-by-side arrangement reduces land footprint by over 40%.

Versatile Deployment

Adaptable topology supports renewable integration, grid stability, and commercial operations.
Modular design enables rapid deployment and flexible configuration.

Product Model	PowerCore
Cell parameters	
Cell type	LFP
Cell capacity	314Ah/315Ah
Pack parameters	
Cell configuration	1P104S
Pack rated voltage	332.8V
Pack rated energy	104.499kWh/104.832kWh
Rack parameters	
Rack battery configuration	1P416S
Pack quantity	4
Rack rated energy	417.996kWh/419.328kWh
System parameters	
System battery configuration	12P416S
Rated energy (BOL) at DC side	5015kWh
System output voltage range	1164.8Vdc-1476.8Vdc
Rate for charging and discharging	≤0.5P
Dimensions (W *H *D)	20ft (6058mm * 2896mm * 2438mm)
Weight	43t
Ingress protection rating	IP55
Anti-corrosion grade	C4
Operating ambient humidity	0%-95%
Operating ambient temperature	-20°C~55°C
Max. operating altitude	4000m (derated above 2000m)
Cooling method	Liquid-cooling
Fire protection	Aerosol + combustible gas detection + ventilation + water extinguishing system
Communication interface	LAN
Communication protocol	Modbus TCP
Certification	IEC62619, IEC63056, IEC62477, EN61000, UL1973, UL9540A, UN38.3

POWERM-PRO
LIQUID-COOLING ENERGY
STORAGE CONTAINER



All-in-One Integration

Pre-integrates batteries, BMS, PCS, and EMS into a single container.
Unified AC/DC coupling for seamless operation.
Simplified & faster installation; Reduced costs & labor.

Modular Design

Flexible AC voltage options for diverse applications.
Supports on-demand capacity configuration.

Independent Rack Management

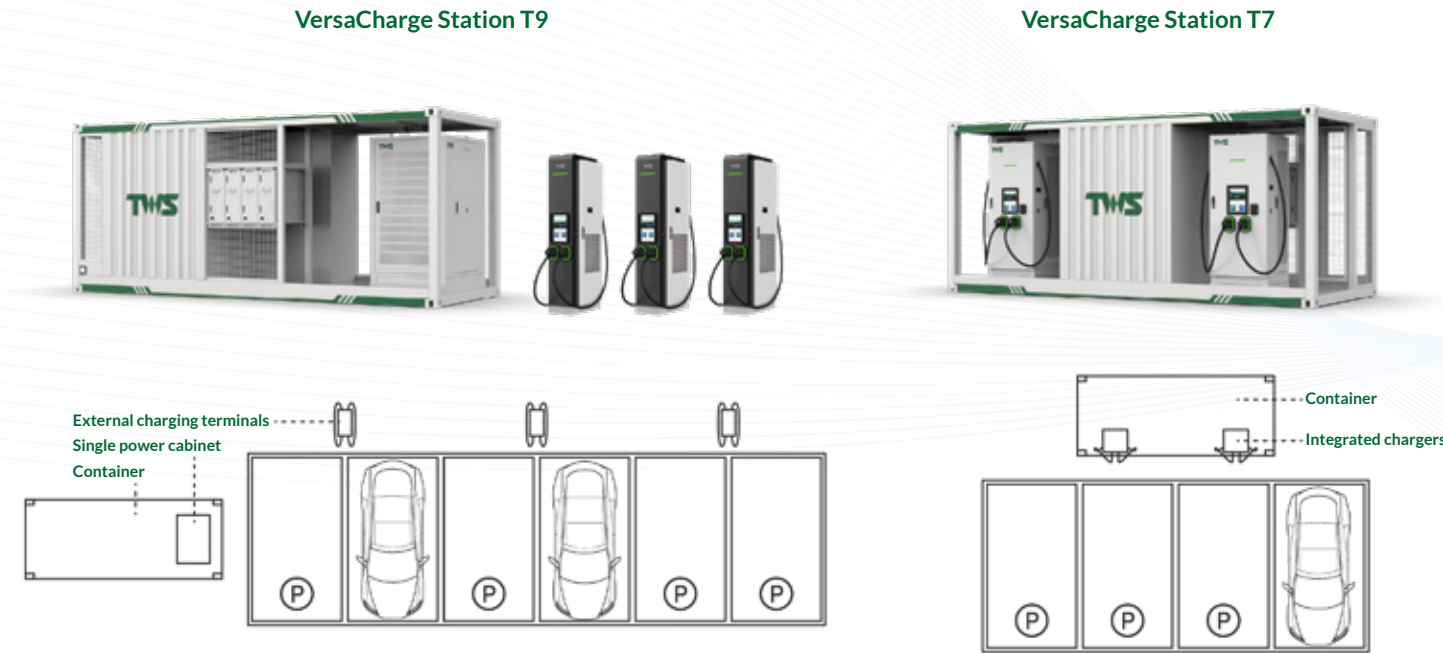
Prevents performance imbalance between racks.
Maximizes overall system efficiency and extends service life.

Intelligent O&M

Real-time monitoring provides instant system visibility and diagnostics.
Rack-level control and modular design enable precise maintenance.

Product Model	PowerM-Pro 2500/1000-400V	PowerM-Pro 3300/1700-690V	PowerM-Pro 3300/1700-800V
Battery Side Parameters			
Cell parameters			
Cell type	LFP		
Cell capacity	314Ah/315Ah		
Pack parameters			
Pack battery configuration	1P104S		
Pack rated voltage	332.8V		
Pack rated energy	104.499kWh/104.832kWh		
Rack parameters			
Rack battery configuration	1P312S	1P416S	
Rack rated voltage	998.4V	1331.2V	
Rack rated energy	313.497kWh/314.496kWh	417.996kWh/419.328kWh	
Battery compartment parameter			
Rated energy	2507kWh	3343kWh	
System battery configuration	8P312S	8P416S	
Rated voltage	998.4V	1331.2V	
System voltage range	873.6 ~ 1107.6Vdc	1164.8 ~ 1476.8Vdc	1206.4 ~ 1476.8Vdc
Rate for charging and discharging	≤0.5P		
PCS Side Parameters			
PCS quantity	8		
Full load voltage range	680Vdc ~ 1500Vdc	1150Vdc ~ 1500Vdc	
Rated AC output voltage	400V	690V	800V
Wiring method	3P4W	3P3W	
Rated output power	8*125kW	8*215kW	
Max. output power	8*137.5kW	8*237kW	
Power factor	0.99/1(leading)~1(leading)		
Current distortion rate	<3% (@rated power)		
System Parameters			
Container dimensions (W*H*D)	20ft. (6058 mm * 2896mm *2438 mm)		
Container weight	<28t	<33t	
Auxiliary power supply	Self-powered		
Ingress protection rating	IP55		
Anti-corrosion grade	C4 (C5 customizable)		
Operating ambient humidity	0%-95% (non-condensing)		
Operating ambient temperature	-20°C~55°C (derated over 45°C)		
Max. operating altitude	4000m (derated above 2000m)		
Cooling method	Battery compartment: liquid-cooling / PCS: smart air cooling		
Fire protection/safety features	Aerosol + combustible gas detection + ventilation + water extinguishing system		
Communication interface	LAN		
Communication protocol	Modbus TCP		
Certification	Battery rack: IEC 62619, IEC 63056, IEC 62477, EN IEC 61000, UL 1973, UL 9540A, UN 38.3 PCS: IEC 62477, EN IEC 61000		

VERSACHARGE STATION



Unconstrained Grid Expansion

Skip 2+ years of grid expansion queues, save >€50k on expensive infrastructure upgrades, and enable instant, effortless scaling of EV charging infrastructure.

Triple-Stream Revenue Potential

Generate income through charging fees, peak-shaving energy arbitrage, and grid balancing services.

Single Supplier, Single Warranty

TWS delivers the battery, power system, and chargers together under one unified warranty to prevent multi-vendor integration issues.

EU AFIR Compliant & Scalable

Delivers 400 kW high-power output today and scales up seamlessly by combining multiple units to meet future EU transport corridor mandates.

100% Clean Solar Integration

Can couple directly with solar PV arrays for 100% renewable charging, enabling higher ESG ratings.

Intelligent Control, Smart Site-Wide Management

Adapts to diverse site needs with smart digital O&M tools.

Product Model	VersaCharge Station T9	VersaCharge Station T7
Battery Side Parameters		
Cell parameters		
Cell type	LFP	
Cell capacity	314Ah/315Ah	
Pack parameters		
Pack battery configuration	1P104S	
Pack rated voltage	332.8V	
Pack rated energy	104.499kWh/104.832kWh	
Rack parameters		
Rack battery configuration	1P312S	
Pack quantity	3	
Rack rated voltage	998.4V	
Rack rated energy	313.497kWh/314.496kWh	
Standards	IEC 62619, IEC 63056, IEC 62477, EN IEC 61000, UL 1973, UL 9540A	
Battery compartment parameters		
System battery configuration	4P312S	
System rated voltage	998.4V	
System rated energy	1253kWh	
DC voltage range	874Vdc~1108Vdc	
PCS Side Parameters		
PCS quantity	4	
DC side voltage range	700Vdc~1500Vdc	
Rated voltage	400Vac	
Rated output power	4*125kW	
Standards	IEC 62477, EN IEC 61000, IEC 62109, EN 50549, C10/11, VDE-AR-N 4110, VDE-AR-N 4120	
Charger Parameters		
Charger type	Satellite	Standalone
Configuration	Single power cabinet integrated in the container, external charging terminals with configurable quantity	2 integrated chargers fully built in the container
Input voltage	400Vac±10% (3P+N+PE)	
Frequency	50Hz~60Hz	
Rated power	480kW (CCS2)	2*240kW (CCS2)
Power factor	≥0.99	
Peak efficiency	≥96%	
THDi	≤5%	
Charging output	Dual-connector (air-cooled): 350A+350A	
Terminal quantity	Up to 3	/
Display screen	15-inch HD touch screen	
Payment	RFID reader / QR code / Mobile APP / POS terminal (optional)	
Protection rating	IP55/IK10	
Standards	IEC61851, IEC61000, DIN70121, ISO15118	
Communication protocols	OCPP1.6J, OCPP2.0.1	
PV Side Parameters (Optional)		
PV AC input switch	630A/1000A/1600A (3 options available)	
System Parameters		
Container dimensions (W*H*D)	6058mm×2591mm×2438mm	
Container weight	24t	
Operating ambient humidity	5%~95% (non-condensing)	
Operating ambient temperature	-20℃ ~+50℃	
Max. operating altitude	2000m	

GLOBAL TECHNICAL SERVICES

Global Expertise • European Presence • Local Support

Our investment in a local European subsidiary is a testament to our long-term commitment. We build lasting partnerships and ensure reliable service.

Trusted Since 1998

Frankfurt Service Center: Operational since 2020



LOCAL EXPERTS

Rapid On-site Support



SPARE PARTS HUB

European Warehousing,
Minimizing Downtime



24/7 MONITORING

Remote Surveillance &
Proactive Alerts



TRAINING

Comprehensive Team
Training Programs



INTEGRATED SYSTEMSOLUTIONS

-  On-site Investigation and Consulting
-  Technical Support and Services
-  Warehousing and Logistics
-  After-sales Service

READY TO EXPERIENCE PEACE OF MIND?

CONTACT OUR LOCAL SERVICE TEAM FOR SUPPORT AND CONSULTATION.

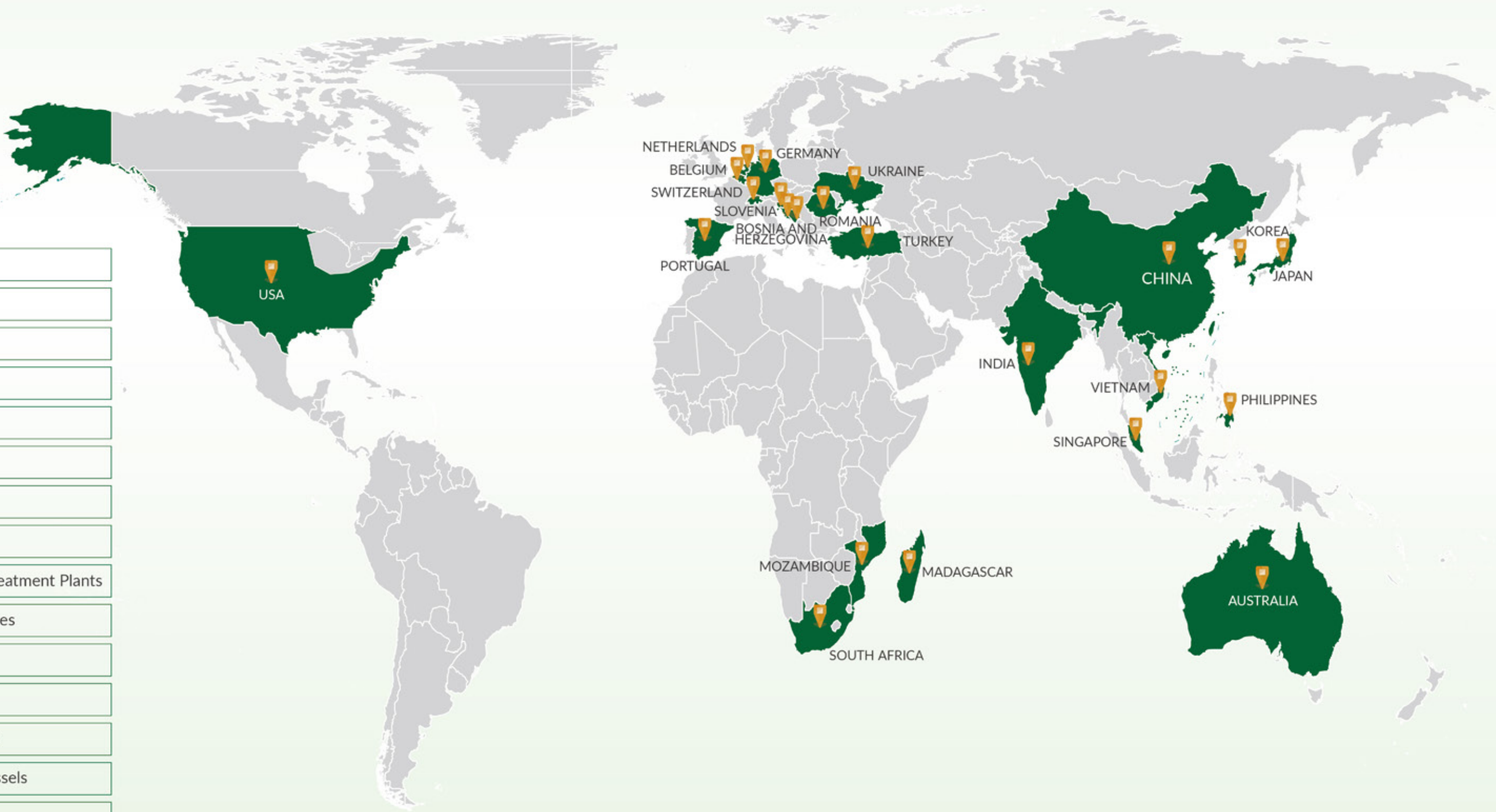


WhatsApp

TWS ESS IN PLACE: DEPLOYED, ENERGIZED, GLOBAL

TWS ESS SOLUTIONS SERVE IN

-  State Power Plants
-  State Grid
-  Manufacturing
-  Aquaculture
-  Agriculture
-  Iron & Steel Groups
-  Mining
-  Automated Sawmills
-  Municipal Sewage Treatment Plants
-  Commercial Complexes
-  Laboratories
-  Industrial Parks
-  EV Charging Stations
-  Electric Dredging Vessels
-  Microgrid Systems



CERTIFICATION & CASE

Global Certification

UN38.3

American Standard

UL

South Korean Standard

KC

IEC

IEC

UN38.3 Safe Transport

UL9540A UL1973 CEC

IEC62619 IEC63056 IEC62477 IEC61000

125 kW / 262 kWh
Municipal Building, Vietnam



Delivery time: 2026
Application: Low-carbon power supply for municipal infrastructure
ESS product: Max-Solaris cabinet

2MW / 6.7 MWh Utility,
Japan



Delivery time: 2025
Application: Grid Integration
ESS product: ProeM cabinet

1.72 MW/ 5 MWh Horticulture,
Netherlands



Delivery time: 2025
Application: On/off-grid switching, energy arbitrage with PV
ESS product: PowerCore container

2.5 MW/ 5.24 MWh Food
Processing, Belgium



Delivery time: 2025
Application: Demand management, energy arbitrage
ESS product: Max-Pro cabinet

500 kW/ 978 kWh Municipal
Sewage Treatment, Netherlands



Delivery time: 2025
Application: Peak shifting
ESS product: ProeM cabinet

4.7 MW/ 5.9 MWh Agriculture &
PV, South Africa



Delivery time: 2024
Application: Agriculture, PV + ESS, 35 kV access, automatic on/off-grid switching
ESS product: ProeM cabinet

1.2 MWh Intelligent Microgrid,
China



Delivery time: 2023
Application: ESS + PV + charging + diesel generator, automatic on/off-grid switching
ESS product: ProeM cabinet

3.75 MW/ 7.45 MWh
Manufacturing, US



Delivery time: 2025
Application: PV+ESS, electricity cost reduction
ESS product: ProeM cabinet

2 MW/ 8 MWh Utility,
Japan



Delivery time: 2026
Application: Frequency Containment Reserve (FCR) Market
ESS product: PowerMod container

225 MW/ 450 MWh Steel Production,
China



Delivery time: 2023
Application: Energy consumption reduction, efficiency increase, frequency regulation, peak shaving, and backup power
ESS product: ProeM cabinet