Sinexcel
Be Sincere, Be Excelsior
Commercial & Industrial
Energy Storage & Micro-grid Solutions

Driven By Sinexcel®
Our Target Applications

- Frequency Regulation
- Peak Shaving
- Spot Market
- Energy buffer
- Micro Grid
- Backup power
Be Sincere, Be Excelsior

800+ Projects
800+ MW PCS
500+ MWh ESS

Our Performance
Modular micro-grid & energy storage solutions

Our Delivery
Power Conversion System

Pre-engineered System w/o battery & EMS

Integration Service
Reliable
- Proven and years operation with various applications in different sites and environments;
- Universal & Certified PCS and container/cabinet system

Flexible
- Modular ACDC/DCDC bi-directional PCS;
- Modular container / cabinet energy storage system;
- Indoor / Outdoor installation

Compatible
- Grid support and grid forming;
- Battery agnostic;
- Global grid certified & listed.

Our Strengths
Keep it simple, make it flexible & retain the use of energy stable.
Our Core Value

Be sincere and excelsior

Help our business partners to succeed

Value innovation

Be humble and responsible
Our Partners

- Engineering Service Provider
- Battery Supplier
- System Integrator
- EMS Provider

Driven By Sinexcel®
Listings on Authorities

Different models for US, UK and Australia had been listed on the authorities.

Listings on National Recognized Testing Labs

![Logos of various testing labs]
Certified Products and Lab

- HECO Rule 14
- CSA 2.22
- IEC 62040
- UL 1741SA
- IEC 62477
- VDE 4105:2018
- UL 9540
- UL 508C
- G99
- IEC 62109
- TOR D4
- IEC 61000
- IEC 50549
- CPUC Rule 21
- IEEE 1547C
- AS/NZS 4777

Product Liability Insurance

- Energy Storage & Micro-grid Solutions by Sinexcel
- Product Liability Insurance by AIG
- Energy Storage Inverters by AIG
Multi-strings Technology

Front maintained & Modular Design

1 or 8 String(s)
Grid-interactive & Grid-forming
Built-in
Pre-engineered System w/o Battery & EMS
Battery-only Solutions

AC Coupled Solutions

DC Coupled Solutions

Pre-engineered ESS
Container ESS
10/20/40ft – Up to 2Mw/4MWh

- Intermodal shipping container
- 10ft/20ft/40ft standard ISO container.
- All-in-one design.
- Modular & NREL certified PCS
- Compact and similar formfactor
- P-Q & V-F mode
- Built-in or external transformer offers option for 400Vac/480Vac connection.
- Independent battery room
- Lithium-ion (LFP/NCM/NAM) or Lead-acid, or Nickel Iron, or Flow battery compatible.
- Pre-engineered with aux distribution, and optional HVAC or air ventilation and/or firefighting system.

- 62.5-500kW PCS
- 50-400kW DCDC Converter
- 250kW PCS
- 50-150kW PCS or 50/100kW Hybrid PCS
- Transformer & Panels & Controllers
- Rack-mounted battery
- 350-2000kWh
- Shelf-mounted battery
- 10ft/20ft/40ft standard ISO container.
- All-in-one design.
DC-coupled Solutions

PWG-50K/100K
For load <= 100kW
PV <= 200kVA

PWS1-500KTL
For load between 100kW - 2Mw

PDS1-400K
For PV between 200kW - 1.5MW

Energy Freedom
Driven By Sinexel®
AC-coupled Solutions

 PWG Series
For <=100kW

 PWS Series PCS
For 100-500kW

 BMS

 Controller

 Diesel Genset

 PV Farm

 Load

 Transfer Switch

 Grid
Cabinet/Rack ESS
Up to 30 kW / 100kWh

- Out-door enclosure
- In-door standard 19" rack or customized enclosure
- Wall-mounted/Rack-mounted 30kW PCS
- Up to 10 units in parallel @ off-grid.
- 400Vac/480Vac/208Vac 3phases & 240Vac split-phase.
- Standard 19in battery system by LFP or NCM/NCA.
- Optional HVAC/Air Ventilation/UPS
- Optional Fire Fighting System
Walk-in or Non-walk-in Maintenance Container
**Auto-grid-transfer-switch**

- Sensing the availability of the grid,
- Automatically or manually toggle the grid interconnection
- Conditional seamless toggling.
- PCS Built-in module or external cabinet.

**Local Controller**

- Wall or Rack mounting
- Local Web access
- Function:
  - Peak shifting,
  - Load tracking;
  - AC coupled system coordination
  - Demand Control;
  - Emergency backup;
  - Micro-grid control.
System Integration Service

- BMS/EMS Integration
- Thermal Improvement
- Battery Cycle Test
THANK YOU
www.sinexcel.us