

**V-CONN™**  
Advanced Innovation

Short Vision

# Case Study

 **CviLux Group**

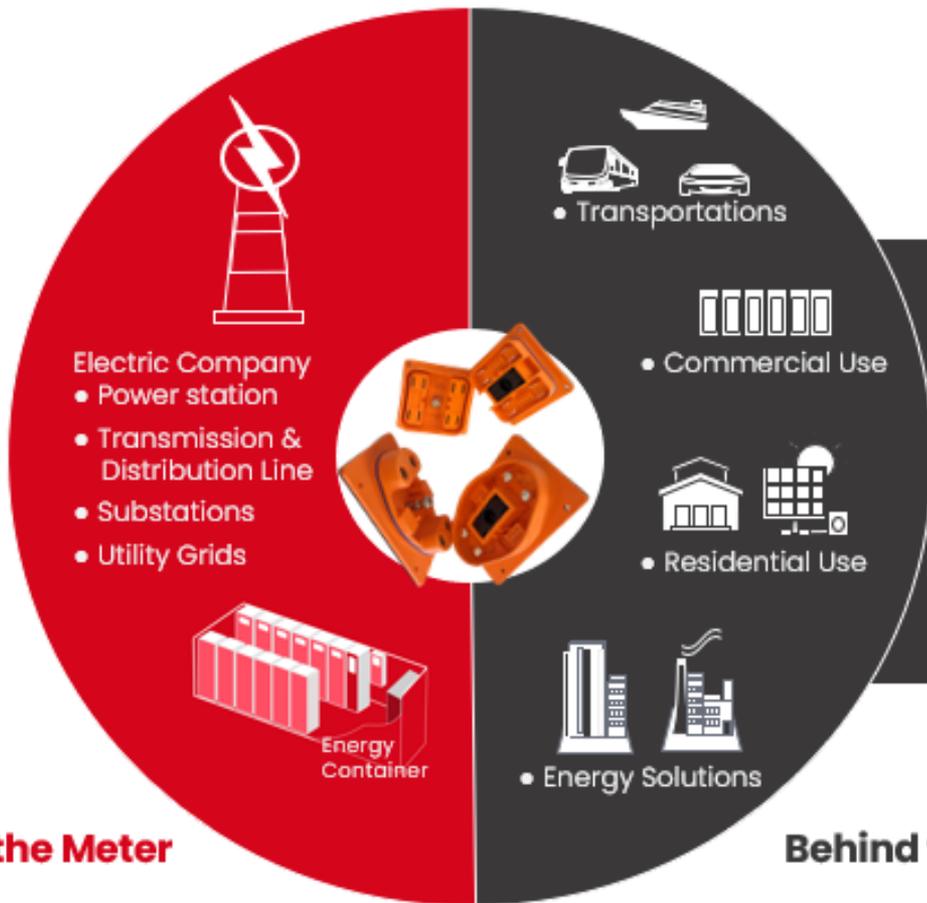
For **Energy Storage**



Sales Department



Date : 2022.,11,10 am



## Sustainable **ESG** Solutions

**V-CONN™** do focuses on providing the advanced connecting solution that keep the energy storage high-security , high-performance connecting.

**Front of the Meter**

**Behind the Meter**

# 3 in One

## CviLux Group

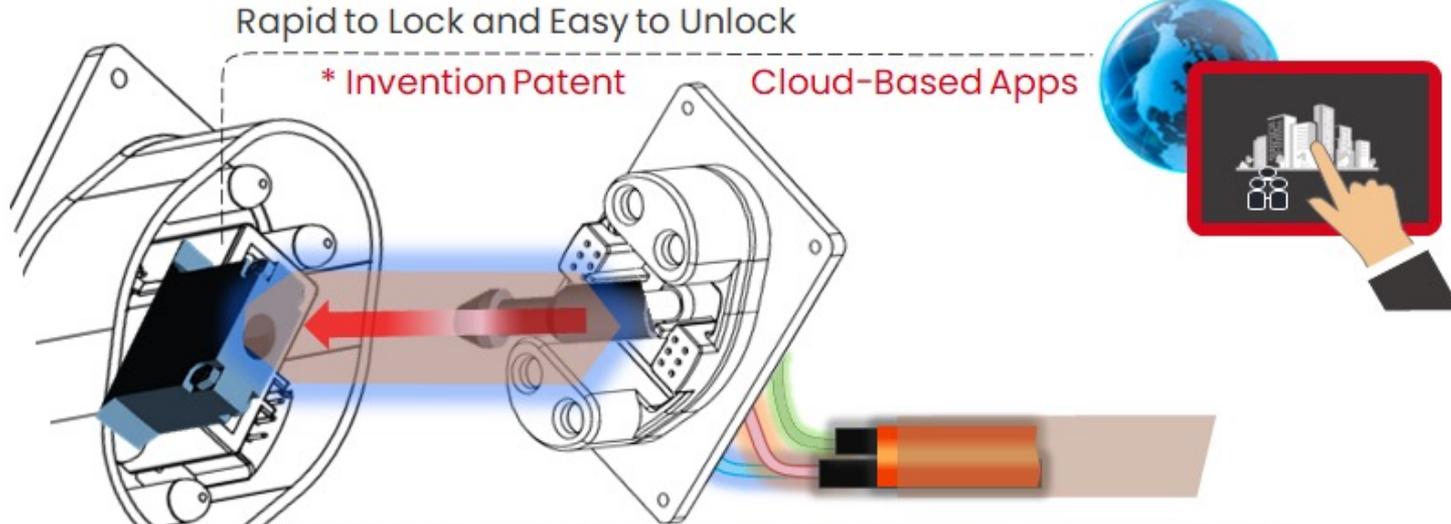
- \* Invention Patent
- \* High Power
- \* High SPEED
- \* Active-Latching
- \* UL 1977
- \* UL 4128
- \* Automotive

### Global Patent & Certification



## ▶ Anti-Loosening mechanism

## ▶ Support Remote un-Lock



**The V-CONN owns International Invention Patent in 2021**

The advanced design contains an active-lock mechanism increasing latch-force over 40kg.

# Upgrading client product **High-Security**

Connect the World  
Connect the Future

**New Energy & Power Module**

**Auto-Mobile & Industrial**

**Industrial**

**LITEON** **AcBel** **BMW** **Mercedes-Benz** **BUICK** **DENSO**  
Member of the TOYOTA Group

**power-one** **DELTA** **Ford** **VW** **GM** **PIONEER**

**Bestec** **FSP** **GE** **OR<sup>TM</sup> SWAP System Service** **SUNGROW** **Vestas** **SOLA POWER X**

**SIEMENS** **ABB** **Danfoss** **Cadillac** **CHERVON** **KONE**

**Schneider Electric** **ZEBRA TECHNOLOGIES** **NCR** **Schindler**

## **All-in-One Electric Harness Service**

High Voltage – High Current – Active Latch – Wiring Assembly

**V-CONN<sup>TM</sup>**

# Customer Case Studies

Powered by ORSWAP



## The Challenge of Circular Economy

Making easy safety connecting  
in **ORSWAP** system possible

How to **CREATE** Customer High-Security  
and **REBUILD** ORSWAP Product Benefits



- 3 in 1 integrated module design  
High Current – Different Signals – Robust Lock
- Fool-Proof design for blind mating
- Simplify the cable routing of system
- Expandable universal module
- Convenient and easy to operate
- Significantly reduce overall costs

# Covering **High-End** Battery Requirement



**FAST & EASY**

**High-Security**

**High Voltage**

**High Current**

**Long cycle-life**

**High Reliable**

**AIoT Support**

Robust Lock

1,000+ Volt

300+ Amp

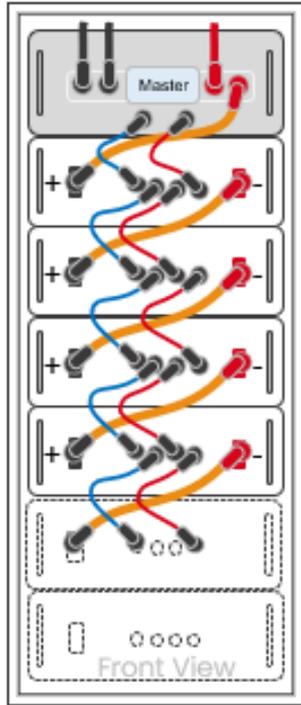
3,000+ Times

**High-Performance**

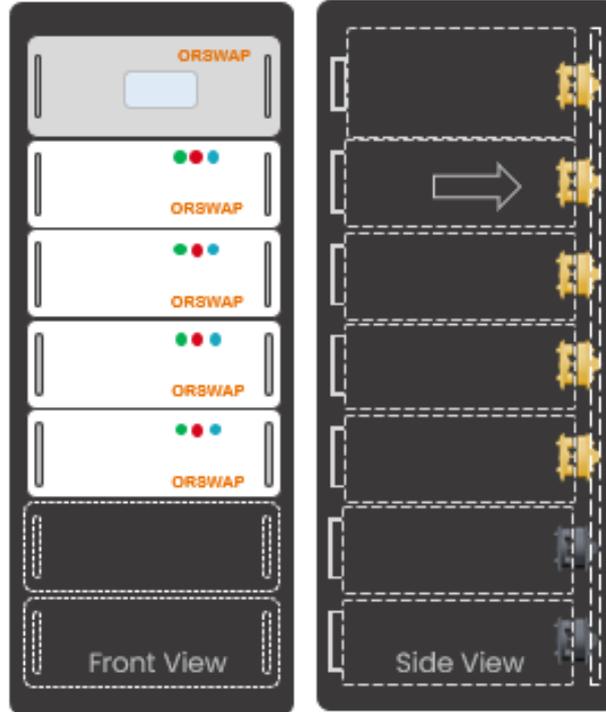
Different Battery Cell Types

# Upgrading **Rack-Mount** Traditional Cabinet

Complex Multiple  
**With Front-Wiring**



Integrated Multiple Connector & Harness  
**With Rear-Wiring**



## Upgrade Features

- ❑ Solving **Messy Wiring** problems
- ❑ Easy to design rackmount with **Simple & Clean** front-panel
- ❑ Support multi-function Integration in the **Rear-Wiring** of energy cabinet
- ❑ Providing high efficiency of **Wiring & Cable Harness**
- ❑ Upgrading **High-Security** of Active-Locker mechanism
- ❑ Fast **Large-Scale** production
- ❑ **Saving Cost & Time** of both assembly and maintenance
- ❑ UL 4128 connector Certification

\* Traditional energy cabinet with drawer-mounts designs for EIA 19" Cabinet

# Simplifying Portable-Pack High Density Cabinet

High-Density cabinet  
With Portable Pack



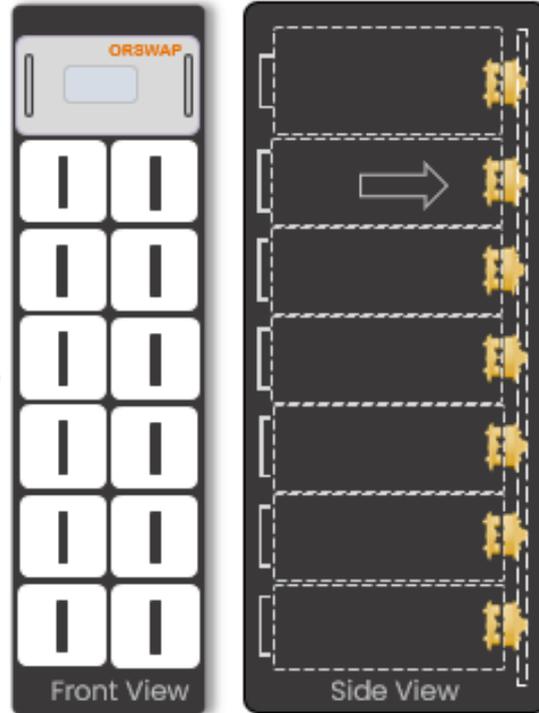
SSB  
LTO  
LFP...

Flexible combination

- \* Pack in series to increase voltage
- \* Pack in parallel to increase current



Integrated Multiple Connector & Harness  
With Rear-Wiring



## Advanced Features

- ▣ Providing **Battery-SWAP** function
- ▣ Easy to design different **Voltage** or **Current** combination cabinet
- ▣ Support multi-function Integration in the **Rear-Wiring** of energy cabinet
- ▣ One of options which **in Series, Parallel or Both** connected in the Rear-Wiring
- ▣ Having **High-Security** of Active-Locker mechanism
- ▣ Saving **Cost & Time** of both assembly and maintenance
- ▣ Easy to scale up bigger system such as **Battery Energy Storage System (BESS)**
- ▣ UL 4128 Connector Certification

\* Cell types of Portable Pack : LTO , Lithium-titanate battery ; LFP, Iron phosphate battery ; SSB , Solid-State Battery



**Contact Us & Thanks**

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