

Full-Matrix Charging Power Distribution Solutions

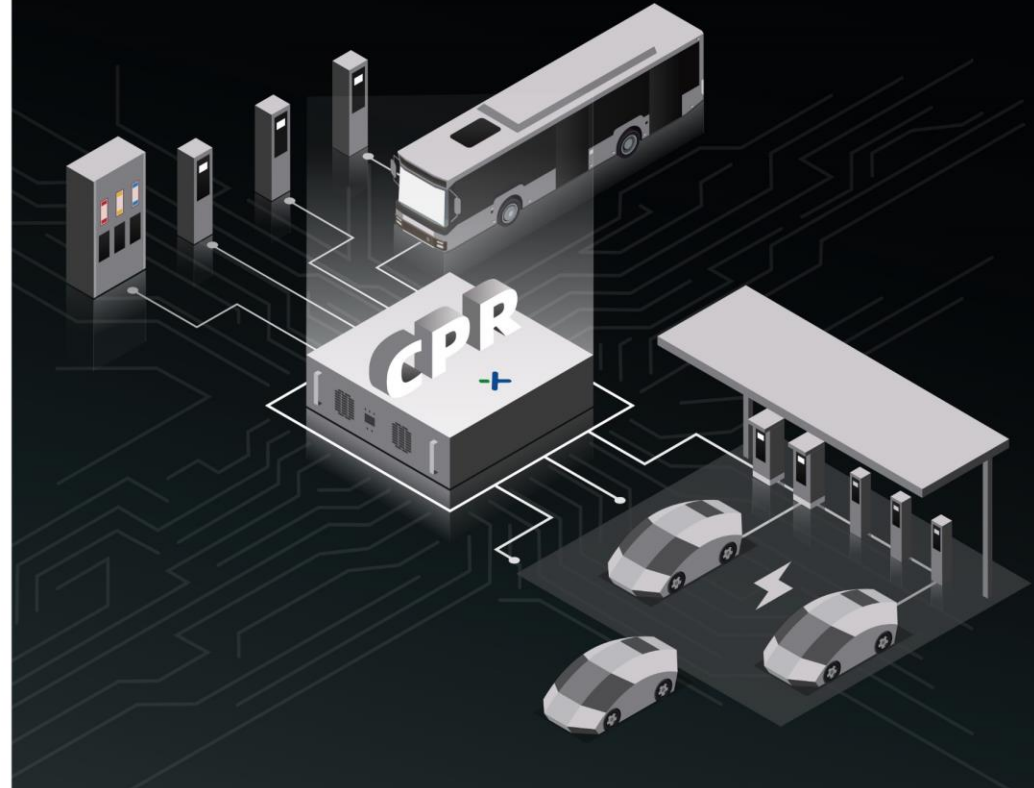
P12K10C1



Power Module	60kW (Available in Q1 2025)	Power Module	40kW GBT (CE version available in Q2 2025)
Total Power	720kW with 6 charging connectors 1440kW with 12 charging connectors (2 sets CPR modules in parallel)	Total Power	480kW with 10 charging connectors 960kW with 20 charging connectors (2 sets CPR modules in parallel)
Connector	300A max per charging connector/output channel Parallel output connection for higher power to 600A, 1500A Constant power output voltage range from 475Vdc to 1000Vdc	Connector	300A max per charging connector/output channel Parallel output connection for higher power to 600A, 1500A Constant power output voltage range from 300Vdc to 1000Vdc

CPR PRODUCT SPECIFICATIONS

Product	12in/10out (positive polarity + negative polarity)
Model	P12K10C1
Input Voltage	0~1000Vdc, as per module outputs
Input Current	0~133A
Output Voltage	0~1000Vdc, as per vehicle demands
Output Current	0~300A (air cooling connectors) 0~600A (liquid cooling connectors) 0~1500A (megawatt charging connectors)
Temperature	-30°C~75°C
Altitude	≤2000m
Communication	CAN * 2
Dimensions(W*H*D, mm) (Unipolar)	520mm*176mm*490mm (excluding terminals, mounting ears, and protruding part of the handle)
Weight/Set	≤31kg * 2
Cooling	Air Cooling
Protection	Output over-voltage protection; relay fault protection; voltage matching fault protection; communication abnormality protection & over temperature protection



INTELLIGENT SOLUTIONS

Flexible & Efficient

Striving on the best Value Creation
Making Energy Greener and more Stable

Full-MATRIX Power Distribution for Group Charging

INTELLIGENT SOLUTIONS

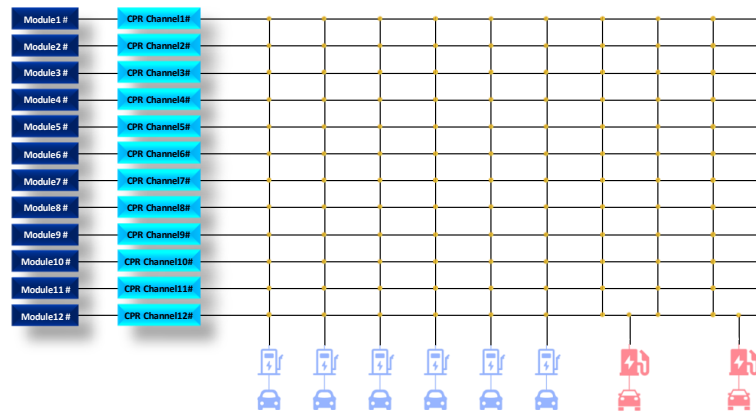
Flexible, Efficient and Powerful



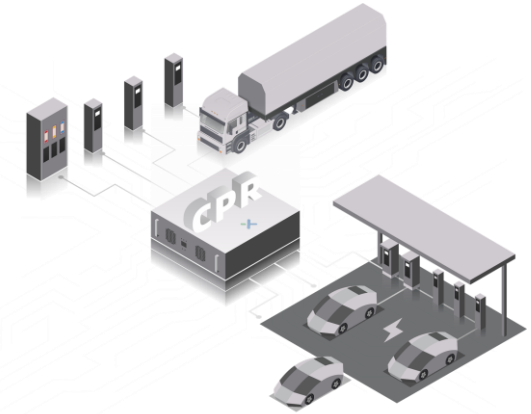
FEATURES

- **Full-Matrix Design:**
enables flexible power distribution, enhancing charging efficiency and experience.
- **Internal Power Distribution Algorithm:**
pre-configured algorithms for straightforward system design.
- **Modular Design:**
compact and versatile for easy installation, operation, and maintenance
- **Flexible Configuration:**
supports parallel output connections and configurations for 6-10 charging connectors per CPR set.

CPR FULL-MATRIX DIAGRAM



CHARGING COMPLEX

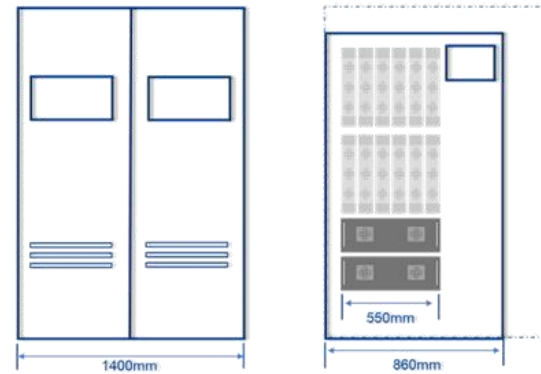


APPLICATION SCENARIOS



STRUCTURE SOLUTION REFERENCE

480kW 12in/10out Power Cabinet



RELIABILITY

- **Harsh Environment Adaptability**
PCB surface with gel filled, high adaptability and high reliability to harsh environments
- **Multiple Protection**
Trigger protection with under over-temperature, relay failure, input over-voltage, communication abnormality etc., higher reliability
- **Lifespan Prediction**
Combine with our power modules, supports intelligent life prediction on key module components like fans, capacitors, and report to the charging operation platform in time

