#### INFY POWER — (nnovation for Your Power —

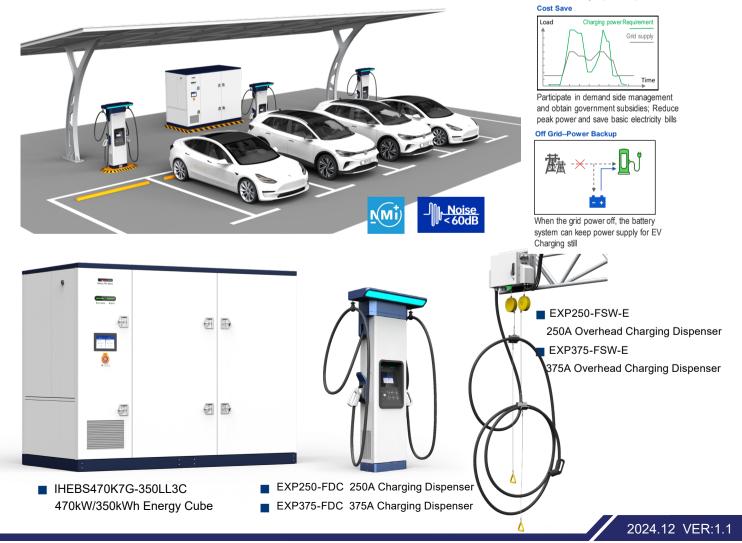
# Liquid Cooled Energy Storage Charging Solution 400kW Charging power/ 6 Charging Connectors/ 350kWh Battery Energy Storage Charger

The energy storage charging system employs LFP battery for energy storage and through the local and cloud EMS, it helps balance the power supply and demand between the grid, battery, EV charging and renewable energy access. Full liquid cooled solution for battery groups can realize the 1P discharge performance to meet the limit AC grid power but high power charging ability with cost efficiency and space saving. It carries significant values in grid peak load shaving, renewable energy resource access and grid power capacity expansion with battery discharge power to grid.

## Solution Value

#### Solution Feature

- Grid peak load shaving
- Grid capacity expansion
- Backup power supply by B2G
- New energy convenient access
- HPC with limit grid power
- Off grid still keep charging
- Full electric safety design with the total electric insolation between the grid, battery, EV and solar power input
- Highly compatible and flexible change for different configurations
- All in one design for small footprint and easy move
- Full liquid cooled 1P battery discharge perrformance lower the cost and size of capacity-power
- Fully liquid cooled power module can get extremly low noise 60dB



Charging power Requirement Grid supply

Charge in off-peak hours and discharge in peak hours, achieving peak-valley

For intermittent high-power loads, the battery system can support the dynamic power expansion and stable the grid power requirement

arbitrage and save electricity costs

Dynamic Power Expansion

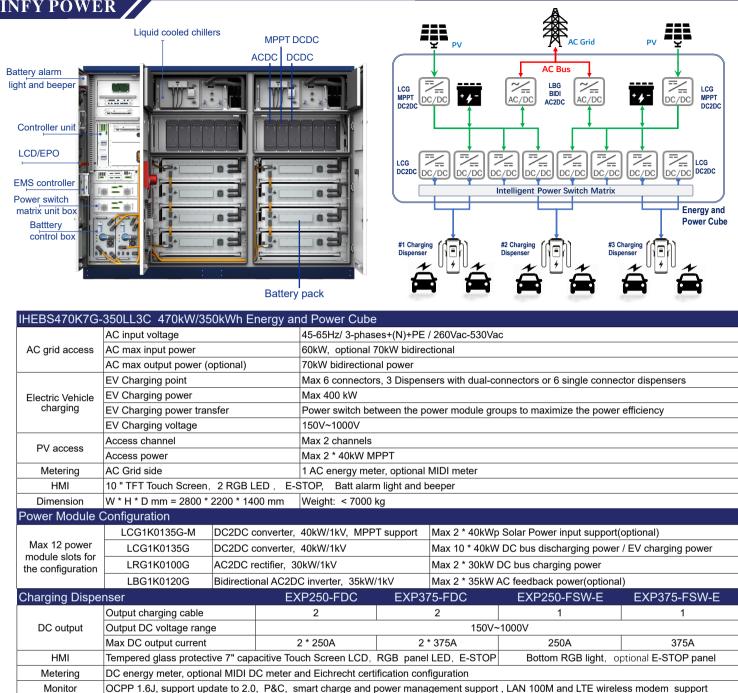
Time

er Requirement

Grid supply

Time

## **INFY POWER**



Mobil APP RFID, Mobil APP, POS(opt) Payment MBE function support WEB side Maintenance Backend System enhance the operation and maintenance effectiveness Dimension: W \* H \* D mm 500\*1800\*260/200kg/IP55/IK10 763\*415\*240/50kg/IP65/IK10 Mechanical Charging connector configuration 2 \* CCS, or CCS + NACS CCS or NACS CCS2: 250A/375A, CCS1: 200A/300A, NACS: 200A/250A/300A/380A Charging connector capacity ≤60dB@30°C@rated input and output full power, Max≤65dB Noise 2 \* 175kWH Liquid Cooled Battery Rack Two groups 175kWh/285Ah liquid cooled battery rack. Bat volt: 537.6~691.2VDC, 1 P dis/charge, max 1.1P discharge 10 min Energy Storage Battery High Voltage Control Box Two Infypower high voltage control box Infypower 2 level BMS structure: Battery Pack BSU + High voltage control box BMU Battery BMS Thermal Management Two liquid chilling unit with 20kW refrigerating and 2.5kW heating capacity each. Full Infy design and manufacture Fire suppression system Completely submerged aerosol fire extinguishing system, water fire interface, emergency fan Safety Design Explosion-proof board configuration and fire-proof spread structure design **Envirement Sensor** Water sensor + Temperature sensor + Humidity sensor + Door access seneor + Smoke detector + Variety of combustible gas detector IP67 Battery pack, IP55 Battery cabinet area

Top assembly cable retractors with light bar



Bottom suspension cable retractor

E-mail: contact@Infypower.com

Protection Class Certification

Monitor

Cable management

Full TUV CE and US/CA