

## All in one Liquid Cooled Movable Battery Energy Charging Solution

400kW Charging power/ 2 Charging Connectors/ 350kWh Battery Energy Storage Charger

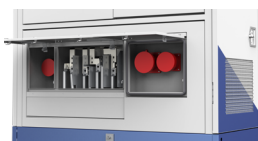
Off grid and movable energy storage charging solution support the temporary rescue charging service and Off-grid power supply service. The energy storage charging system employs LFP battery for energy storage, through the local and cloud EMS it helps balance the power supply and demand between the grid, battery and EV charging. Full liquid cooled solution for battery groups can realize the 1P/1C discharge performance to meet the limit AC grid power but high power charging ability with energy cost efficiency and space saving, also can realize high life cycle. Full off grid electric design and Enhanced structural design for long-term vibration transport and temporary field charging.

### Solution Value

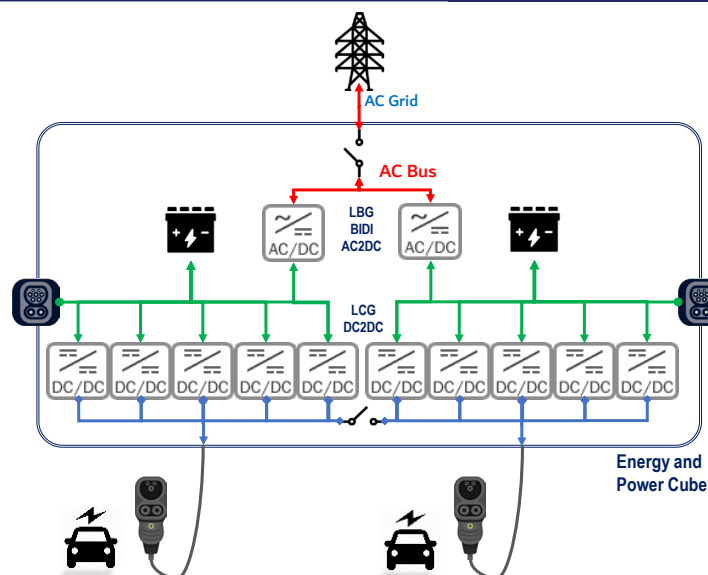
- High power charging in off grid status
- Movable application
- Temporary grid capacity expansion
- Micro grid supply

### Solution Feature

- Full electric safety design with the total electric insulation between the grid, battery, EV and solar power input
- Full off grid electric design and Enhanced structural design
- All in one design for small footprint and easy move
- Full liquid cooled 1P/1C battery discharge performance lower the energy cost and size of capacity-power
- Full liquid cooled battery can realize the battery high life cycle
- Fully liquid cooled power module can get extremely low noise 55dB
- IP65 design, anti-salt spray and condensation protection design for high protection and high reliability in harsh environment
- Industrial socket-outlets for quick and flexible AC Grid connection, also support external standard DC fast charger charging connector access for high speed battery charging



■ IHEBV470K7G-350LL3C-D4EE3B All in one movable Battery Energy Charger



### IHEBS470K7G-350LL3C 470kW/350kWh Energy and Power Cube

AC grid access	AC input voltage	45-65Hz/ 3-phases+(N)+PE / 260Vac-530Vac
	AC max input power	70kW
	AC max output power	70kW
	Off grid support	Yes
	Grid access interface	Industrial socket-inlets
External DC Charger charging access	Access interface	2 CCS socket-inlets
	Access power	Max 180kW per channels, can charging in parallel
Electric Vehicle charging	EV Charging point	2 connectors
	EV Charging power	400 kW
	EV Charging power transfer	two connectors charging in parallel with half power or in series with full power
	EV Charging voltage and Current	150V~1000V, Max 375A
Metering	AC Grid side	1 AC energy meter, optional MIDI AC meter
	DC output side	2 DC energy meters, optional MIDI DC meter
HMI	empered glass protective 10" capacitive Touch Screen LCD, RGB panel LED, E-STOP Batt alarm light and beeper	
Payment	RFID, Optional Credit Card Reader installation	
Monitor	OCPP 1.6J, support update to 2.0, P&C, smart charge and power management support, LAN 100M and LTE wireless modem support	
Noise	< 60 dB	
Charging and Billing Modes	Auto full charge, Charge time, Amount, Charge energy, Charge end SOC	
	Charging connector configuration	
Dimension	2 * CCS, or CCS + NACS	
	W * H * D mm = 2800 * 2200 * 1400 mm	Weight: < 7000 kg

### Power Module Configuration

12 power module slots for the	LCG1K0135G	DC2DC converter, 40kW/1kV	10 * 40kW Battery discharging power / EV charging power
	LBG1K0120G	Bidirectional AC2DC inverter, 35kW/1kV	2 * 35kW AC power

### 2 \* 175kWH Liquid Cooled Battery Rack

Energy Storage Battery	Two groups 175kWh/285Ah liquid cooled battery rack. Bat volt: 537.6~691.2VDC, 1 P/C dis/charge, max 1.1P/C discharge 10 min		
High Voltage Control Box	Two Infypower high voltage control box		
Battery BMS	Infypower 2 level BMS structure: Battery Pack BSU + High voltage control box BMU		
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 combustibile gas detector		
Protection Class	IP67 Battery pack, IP55 Battery cabinet area		
Charging Power	External DC Fast charger access, 2 * 180kW, or AC Grid power access, 70kW		
Discharging Power	2 * 200kW		