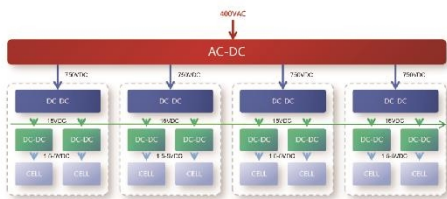


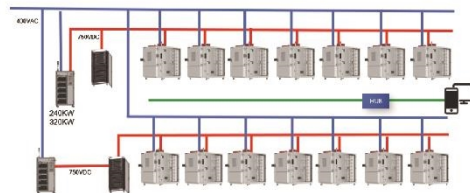
## Integrated solution for climate chamber and charge and discharge

Climate chamber are special designed for different type of traction battery test. On the basis of standard climatic chamber, protection mechanisms are provided to different hazard level, to ensure the safety of company personnel, property and equipment.

Distributed common DC bus technology converts AC power to a high-voltage DC bus via external bidirectional AC/DC units. It then provides energy to each channel through high-to-low voltage DC/DC bidirectional inverters. Each channel can also form a DC microgrid through the bus to improve conversion efficiency. Can achieve energy saving, reduce equipment maintenance as well as the footprint of the equipment.



Schematic diagram



Layout diagram

\*PCS components are provided by Nebula.

# VS

## Integrated

- ✓ Configurable AC power rating from 33% to 50%
- ✓ High-power AC power modules the cost is low
- ✓ 750V High-voltage cables enable a slimmer design
- ✓ Shorter output cable of 1.5~2 meters
- ✓ Reduced footprint and weight
- ✓ Enhanced energy efficiency through dual busbar energy circulation

## Split

- 100% AC power configuration
- Low-power modules come with a higher cost
- 380VAC AC cables require a larger diameter
- Output cable length of approximately 3.5 meters
- Large weight and volume
- Independent channels lead to significant energy consumption and high energy costs

### Specification Table

Type	TOH-B1000EXL
Interior Dimensions (W*D*Hmm)	1000*1000*1000
Temperature Range	-40~100°C
Humidity range	20~98%RH
Heating Rate/ Cooling Rate	customizable
Temperature Uniformity	<1°C
Output Voltage	Charging: 0-5V; Discharging: 1.5-5V(Output cable within 5m)
Output Current	-300A to +300A/-450A to +450A/-600A to +600A
Channels Number	8CH
Voltage Accuracy	±0.02%F.S. (15°C-35°C)
Current Accuracy	±0.03%F.S. (15°C-35°C)
Current Rise/Fall Time	4ms (10%-90%)
Switching Time	8ms (-90%~+90%)
Fire Protection	Safety Measures: Pressure relief, door chain (standard), strong exhaust (optional). Monitoring Functions (optional): Smoke detection, gas detection (CH, CO, H2), overtemperature protection. Fire Extinguishing Capabilities (optional): Perfluorohexane, water spray, water submersion. Safety Programmable Logic Controller (PLC) (optional): Manual/automatic fire suppression, remote fire suppression, independent alarm power cut-off.