

# Data Center Infrastructure

The one-stop solution for sustainable digital **efficiency and protection**.

## Solution Benefits

### Optimized Efficiency

- Free cooling with refrigerant type indirect free cooling.
- Aisle containment no energy loss from cold/hot air mix.
- High efficient components including inverter compressors, EC fans and green refrigerant.
- Real time PUE measuring and monitoring.
- UPS supports ECO energy saving mode.

### Standardized Management and Monitoring

- LEGO style standard product modules for easy duplicated management.
- Local and remote monitoring protocol for easy control and visualization.
- Real time alert/notification for peace of mind performance.
- Easy purchasing, installation, and service process with pre-defined designs.

### Integrated Protection and Security

- TIER 1~4 design compatibility.
- Secure access control of each doors.
- Compatible with fire system by automatic action to top panels and air conditioners.
- Video surveillance with live view and backup recording.

## Design Features

### Smart Module with Larger Display



- 21 inch/43 inch display per configuration.
- Smart doors automatic open/close.
- Top panel automatic open per fire signal.
- Blue/Orange/Red lights status indication.
- Modular construction suitable for future expansion.

### Green Precision Cooling



- 5-90kW Row cooling, or 5-200kW Room cooling.
- Green efficiency type free cooling options.
- High efficiency technology with inverter and EC fan
- Works for -40C ~ +55C ambient temperature.

### Hybrid Power in Modular Form



- Standard design rack mount type UPS/48VDC rectifier saving space.
- VRLA and Lithium battery by configuration.
- Smart PDU per configurations.
- Built in power distribution panels configurable to T1~T4 uptime level.

### Secured IT Rack System



- Secured by access control system with optional smart locking.
- 1800kg static loading capacity IT racks.
- Optional with solid rear door for better airflow management.

### Insightful DCIM System



- Full communication to UPS, cooling, power panel, and all type of sensors.
- Integration with access control system.
- Integration with video surveillance system.
- Local display and settings on touch screen.
- Remote accessible from web, SMS, Email, Modbus-TCP. Optional with SNMP.

### Unified Access Control System



- 3 in 1 type (pin/password/fingerprint) access control protection. Optional 4 in 1 (+face recognition) access control protection.
- Central and remote management by standalone software.
- Integration into DCIM system.

Customized Efficiency

# Modular Data Center Solutions

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## Power System

- 3kVA~60kVA rack UPS
- 60-200kVA modular UPS rack mount.
- 250-600kVA modular UPS floor mount
- 60A~1200A 48VDC rectifier
- Basic/Smart PDU



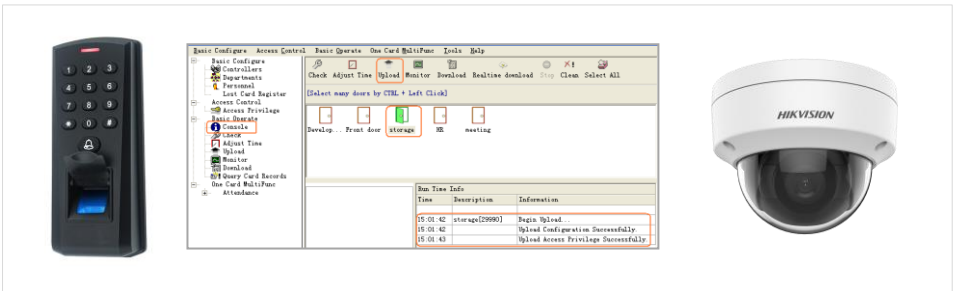
## Cooling System

- 5-90kW Inrow cooling system
- 5-200kW CRAC cooling system
- Refrigerant type free cooling available upon configuration.



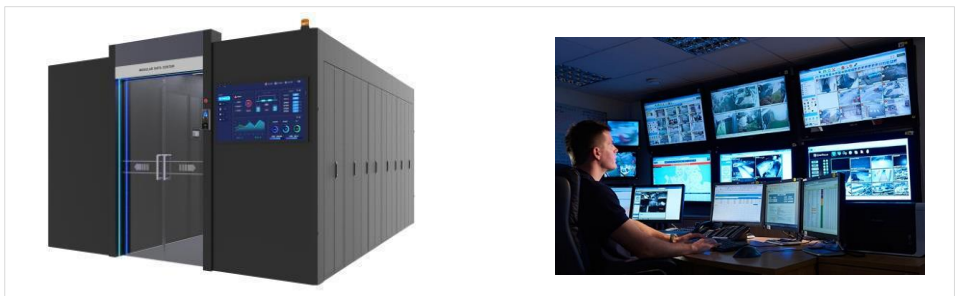
## Security System

- 3 in 1 access control for each door.
- Centralized software management.
- Video surveillance.



## DCIM System

- Local & remote monitoring, and alert.
- Full sensors.
- Full integration of 3<sup>rd</sup> party equipment.

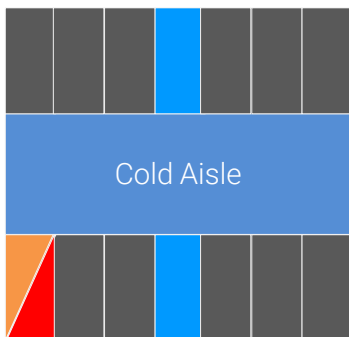


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# Data Center Solutions

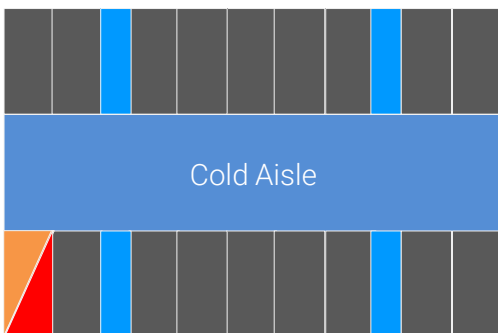
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## Pre-configured Models



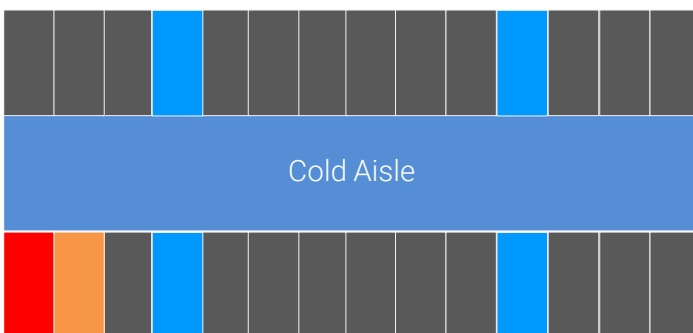
### DCS-60-R12

- IT Rack: 12 Sets
- IT Power: 60kW
- Cooling: 2x 65.7kW
- UPS: 90kVA
- Redundancy: N+1



### DCS-90-R18

- IT Rack: 18 Sets
- IT Power: 90kW
- Cooling: 4x 31.1kW
- UPS: 125kVA
- Redundancy: N+1



### DCS-120-R24

- IT Rack: 24 Sets
- IT Power: 120kW
- Cooling: 4x 51.2kW
- UPS: 150kVA
- Redundancy: N+1

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