



-  **All-in-one solution design**
-  **Quick deployment**
-  **High efficiency**
-  **Safe and reliable**
-  **Intelligent management**
-  **Flexible**

All-in-one solution design

- IDU integrate cooling system, precision power distribution system, monitor system, cabinet system, fire protection system in one solution, this change ROOM DC into RACK DC;
- IDU consist of all infrastructure in data center. IDU lowers the requirement of installation space, no need special data center, reduces the space for data center in result.

Quick deployment

- Integrated design concept. All assembly and commissioning are finished in factory, engineer only need to finish simple connection onsite, then it can be put into use after connecting with utility.
- No need special data center room, it can be deployed in many kinds of occasions.

High efficiency

- PUE is about 1.3;
- Sealed cold/hot aisle separation, making full use of cold air;
- Inrow air conditioner or rack mount air conditioner is close to server cabinet, this shortens the distance of cold air;
- High efficient UPS, high efficient cooling system

Safe and reliable

- Sealed design-dustproof and noise-proof;
- Support N+1, 2N design, it can ensure stable running of IT equipment;
- Emergent ventilation system. When precision cooling system fails, emergent fan open, it can ensure the IT equipment system running in acceptable temperature in short time;
- Equipped with automatic fire protection system. When there is fire accident inside of cabinet, fire extinguisher turn on automatically, it can extinguish the fire immediately and ensure the safety of equipment and people.

Intelligent management

- Centralized power and environment monitor system, it can monitor UPS, TH sensor, smoke sensor, air conditioner, power distribution, water leakage detection, door status sensor in real time;
- Support warning by SMS, email etc.

Flexible

- Flexible configuration of IDU, IDU can be configured as customer's requirement.

1st solution: CRAC + Power cabinet + IT cabinet;

2nd solution: CRAC + Power cabinet + IT / cabinet + IT cabinet + CRAC;

3rd solution: Power cabinet + IT cabinet + CRAC + IT cabinet + IT cabinet;

4th solution: Power cabinet + IT cabinet + CRAC + IT cabinet + IT cabinet + IT cabinet + CRAC + IT cabinet + IT cabinet

IT Cube Integrated Solution - IDU Configuration

■ Appearance



Front Side



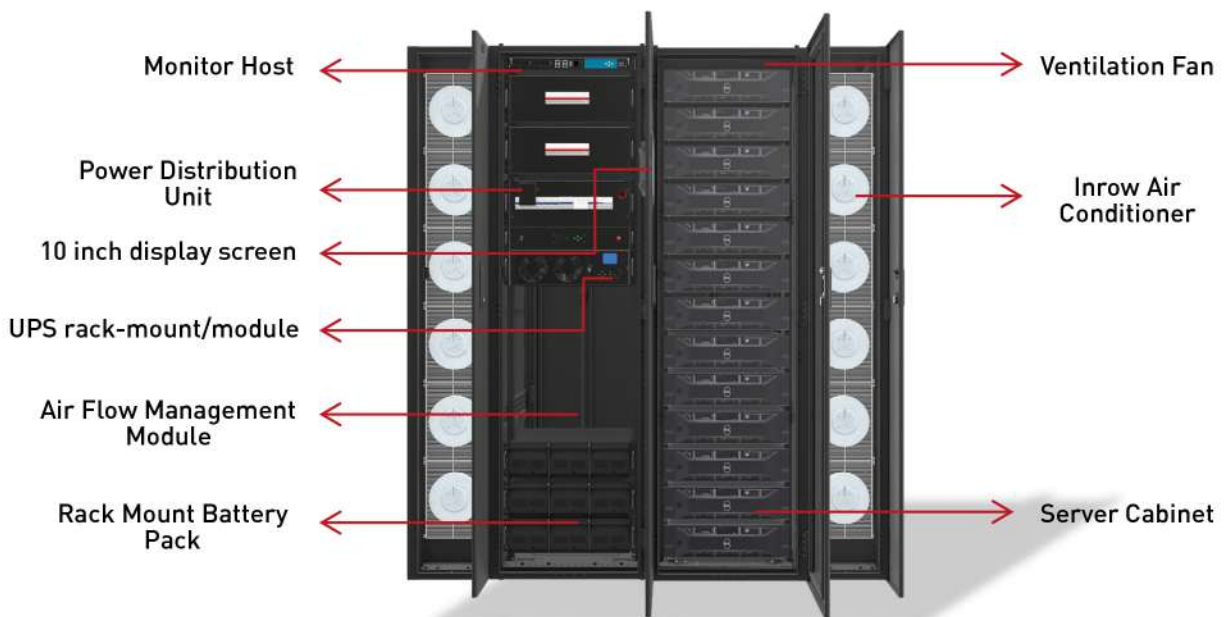
Flank



Rear Side



■ Subsystem of IDU



■ Inner Structure - Subsystem



Inrow air conditioner



Rack mount air conditioner



Cabinet



Power Cabinet

■ IT Cube - IDU Subsystem



Monitor Unit



Outdoor Unit of CRAC



Cabinet

Indoor Unit of CRAC



Power Module



Rack Mount Air Conditioner

■ Flexible



< With CRAC Solution



< Without CRAC Solution

Technical Specifications:

SYSTEM	SPECIFICATION	WITH AIR CONDITIONER		
		IDU-06	IDU-10	IDU-15
Dimension	Appearance	Sealed aisle design, total depth is 1400mm, height is 2000mm, width is depend on the configuration		
	Power cabinet, server cabinet, battery cabinet W x D x H (mm)	600 x 1200 x 2000	600 x 1200 x 2000	600 x 1200 x 2000
	CRAC W x D x H (mm)	300 x 1200 x 2000	300 x 1200 x 2000	300 x 1200 x 2000
Power	Input Power	220V/1Ph/50Hz	220V/1Ph/50Hz	380V/3Ph/50Hz
	Output Power	220V/1Ph/50Hz	220V/1Ph/50Hz	380V/3Ph/50Hz
	UPS Power	6kVA, Module/Rack mount optional	6kVA, Module/Rack mount optional	6kVA, Module/Rack mount optional
	Backup Time [15min]	9AH 12V, hot-swappable, 3U, x2	9AH 12V, hot-swappable, 3U, x4	9AH 12V, hot-swappable, 3U, x6
	Backup Time [1h]	6-FM-38, 12V, 1 group, 16 pieces	6-FM-65, 12V, 1 group, 20 pieces	6-FM-65, 12V, 1 group, 32 pieces
	Backup Time [2h]	6-FM-65, 12V, 1 group, 16 pieces	6-FM-100, 12V, 1 group, 20 pieces	6-FM-100, 12V, 1 group, 32 pieces
Cooling	Total Cooling Capacity (kW)	5	7.5	12.5
Monitor	Local Display	10' Screen, Display screen		
	TH Sensor	Each cabinet: 2		
	Smoke Sensor	Each cabinet: 1		
	Water Leakage Detection	Yes		
	Camera	1	1	1
	UPS	Yes	Yes	Yes
	Precision Power Distribution	Yes	Yes	Yes
	CRAC	Yes	Yes	Yes
	Emergent Ventilation	Yes	Yes	Yes
Fire Protection	FM200, Heat-melt	Optional		

SYSTEM	SPECIFICATION	WITHOUT AIR CONDITIONER		
		IDU-06	IDU-10	IDU-15
Dimension	Appearance	Non sealed design, both front and back door are nest, total depth is 1200mm, height is 2000mm, width is depend on the configuration		
	Power cabinet, server cabinet, battery cabinet W x D x H (mm)	600 x 1200 x 2000	600 x 1200 x 2000	600 x 1200 x 2000
	Cold/Hot aisle (mm)	/	/	/
	CRAC W x D x H (mm)	/	/	/
Power	Input Power	220V/1Ph/50Hz	220V/1Ph/50Hz	380V/3Ph/50Hz
	Output Power	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz
	UPS Power	6kVa, Module/Rack mount optional	10kVa, Module/Rack mount optional	15kVa, Module/Rack mount optional
	Backup Time (15min)	9AH 12V, hot-swappable, 3U, x2	9AH 12V, hot-swappable, 3U, x4	9AH 12V, hot-swappable, 3U, x6
	Backup Time (1h)	6-FM-38, 12V, 1 group, 16 pieces	6-FM-65, 12V, 1 group, 20 pieces	6-FM-65, 12V, 1 group, 32 pieces
	Backup Time (2h)	6-FM-65, 12V, 1 group, 16 pieces	6-FM-100, 12V, 1 group, 20 pieces	6-FM-100, 12V, 1 group, 32 pieces
Cooling	Total Cooling Capacity (kW)	/	/	/
Monitor	Local Display	10' Screen, Display screen		
	TH Sensor	Each cabinet: 1		
	Smoke Sensor	Each cabinet: 1		
	Water Leakage Detection	Optional		
	Camera	1	1	1
	UPS	Yes	Yes	Yes
	Precision Power Distribution	Yes	Yes	Yes
	CRAC	No	No	No
	Emergent Ventilation	No	No	No
Fire Protection	FM200, Heat-melt	/		