



ITCubeTM

Data Center Integrated Solution



The background of the slide features a light blue and white color scheme. The top half shows a perspective view of a ceiling with a grid of rectangular panels, creating a sense of depth. The bottom half shows a perspective view of a floor with a similar grid pattern, also creating a sense of depth. The text is centered in the middle of the slide.

ITCubeTM

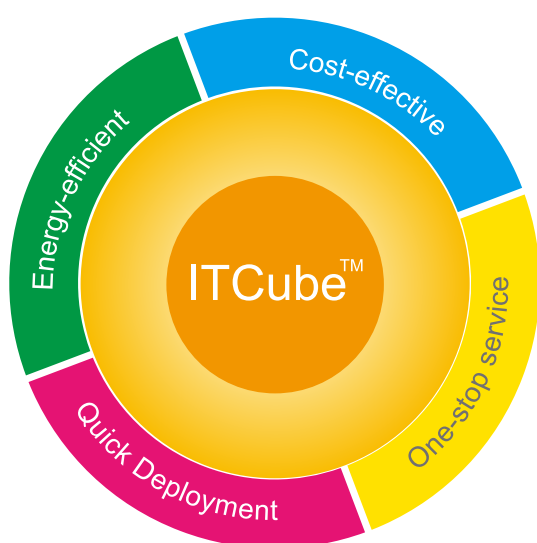
Easy the Complex

PowerUps ITCube™

Data Center Integrated Solution

With the rapid development of cloud computing and mobile Internet businesses, the growth of IT density and energy consumption are bringing a lot of challenges to the traditional data center. To complying with the requirements of cloud computing and virtualization in future, as well as improving the efficiency of data centers and controlling the cost of investment, PowerUps has launched ITCube™ series data center solution. ITCube™ has all-in-one, green efficiency, modular design concept, to help clients achieve rapid deployment, flexible expansion, efficient operation and convenient management through the next-generation data center lifecycle.

ITCube™ Core Values



·Quick Deployment

Modularization component, standardization interface, factory pre assembled, quick installation on site

·Energy-efficient

Modular UPS, precision cooling, closed aisle

·Cost-effective

Low design cost, low project cost, low maintenance cost

·One-stop Service

Total solution package including key sub-system equipment, installation and after-sale service.

ITCube™ Product Overview

PowerUps ITCube™ series data center solution includes three solutions of IDU(Integrated Data Center Unit), IDM(Integrated Data Center Modular), IDR(Integrated Data Center Room), covering all of indoor scenes of data center in order to meet the diverse needs of customers.

IDU



Micro-enterprises, branch offices

IDM



Small and medium enterprises, regional centers, high-density deployment

IDR



Large enterprises

Integrated Data Center Unit (IDU)

IDU integrated with cabinets, monitoring, power supply and distribution system, batteries, inrow air-conditioning and other infrastructure, packages the complex data center solutions into a highly efficient, plug to play product.



IDU Product Features

·Quick Deployment

- Full integration of IT cabinet, UPS, battery, power distribution and precision cooling system. *
- Modular components following international standards are quick to play within one day and greatly shorten the business on line cycle.



·Energy-efficient *

- Fully enclosed structure, sealing both hot and cold ventilation channels, greatly reduced the energy consumption.
- Inrow air conditioning close to heat source delivering air flow accurately to where desired.
- Efficient modular UPS.

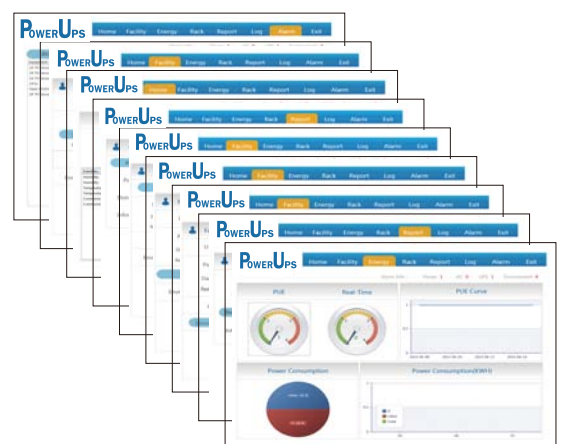


Modular UPS

Inrow Precision Air Conditioner

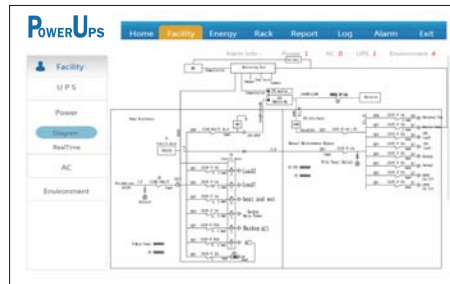
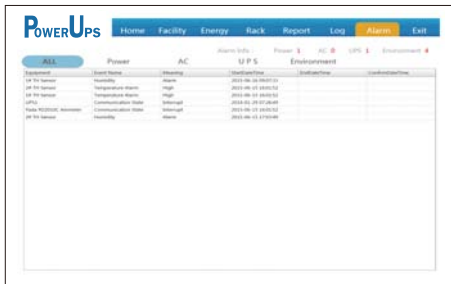
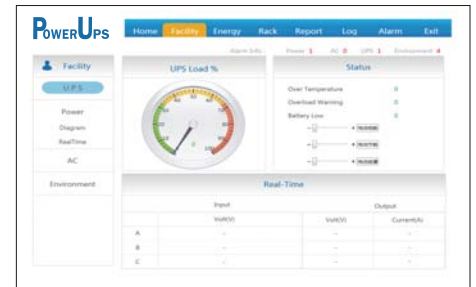
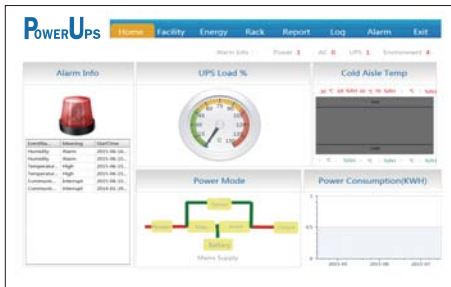
·Smart Management

- Centralized monitoring platform with local display watching the power status, temperature&humidition status, and each sub-system conditions.
- Powerful reporting capabilities.
- Support 365 days 7x24-hour unattended, remote monitoring. Minimize IT operation and maintenance costs.
- Only with air conditioner machine has the function.





Safety & Reliability

- Closed micro-environment which is dust-proof and noise cancelling reduces the IT equipment failure rate and extends the IT system life cycle.
- N+1/2N redundant design. The continuous power supply with back up battery guarantees stable IT equipment operation.
- Multi-stage automatic alarm function. Real-time cabinet condition monitoring.
- Emergency ventilation system will be open when the AC in failure.
- Automatic fire extinguishing system.



Technical Specifications

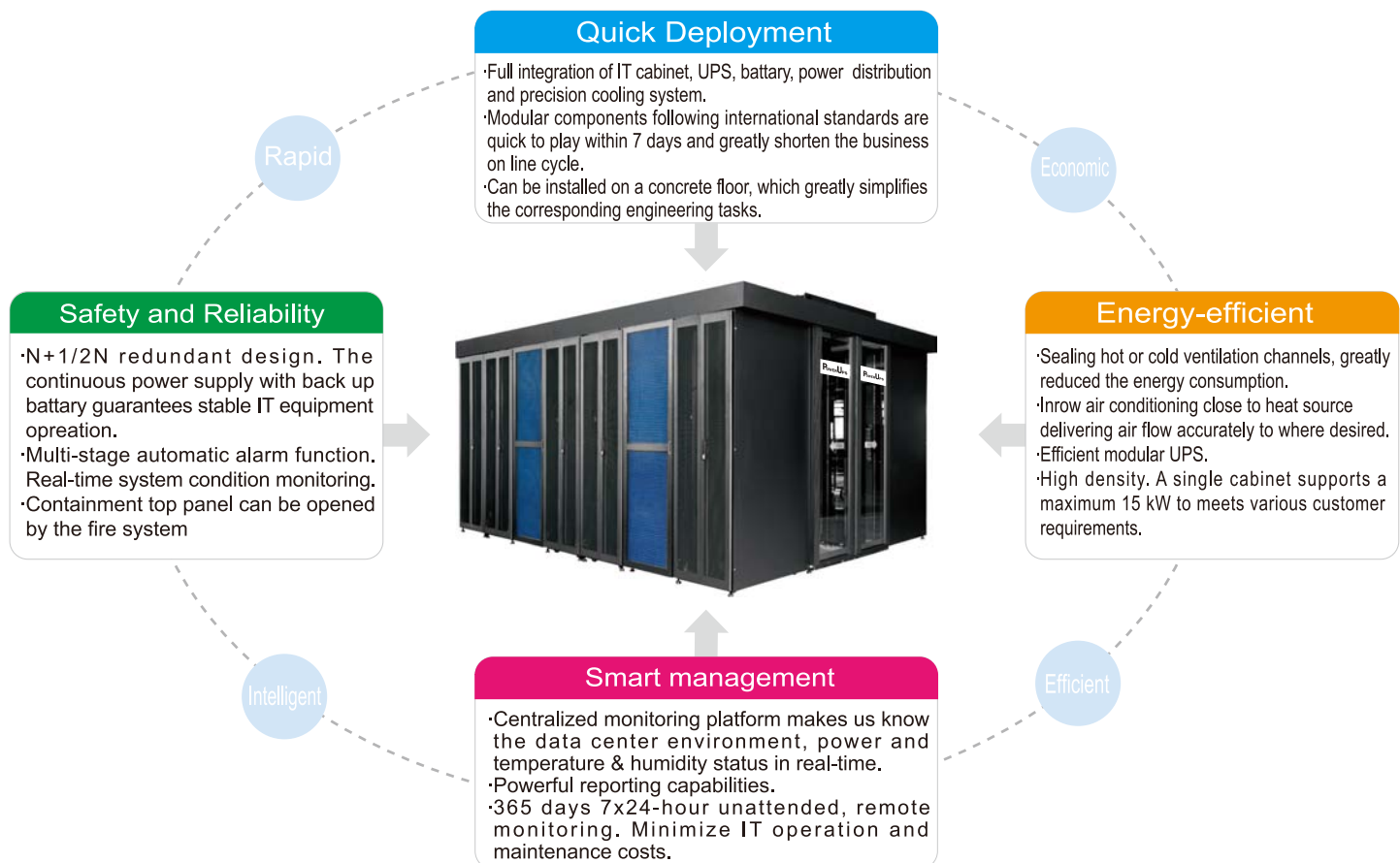
Specifications Description	With Air Conditioner			Without Air Conditioner		
	IDU-06AN	IDU-10AN	IDU-15BN	IDU-06AO	IDU-10AO	IDU-15BO
Product Form						
						
Appearance Features	Closed door ,D:1280mm H:2000mm			Mesh door ,D:1100mm. H:2000mm		
External dimension W×D×H (mm) *	1500×1280×2000	1500×1280×2000	2100×1280×2000	1200×1100×2000	1200×1100×2000	1800×1100×2000
W×D×H (mm)	IT Cabinet dimension / Default one is 600MM .Number can be configured					
Available Space	42U					
Power						
Power Cabinet Dimension W×D×H (mm)	600×1100×2000					
Input power	220V/1Ph/50Hz	220V/1Ph/50Hz	380V/3Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	380V/3Ph/50Hz
Power Input Mode	Support Up Down Input					
Input switch	100A/1P	100A/1P	80A/3P	100A/1P	100A/1P	80A/3P
UPS Capacity (Module/Rack optional)	6kVA	10kVA	15kVA	6kVA	10kVA	15kVA
Back up Time	15 min, 1hour,2hours optional					
Cooling (Only with air conditioner)						
Total Cooling Capacity (KW)	5	7.5	12.5	-		
Cooling Dimension W×D×H (mm)	300×1100×2000			-		
Quantity	1			-		
Monitoring						
local display	10' Screen					
Temperature and humidity sensors	yes					
Smoke sensors	yes					
Water detection	yes			-		
UPS	yes					
Power distribution monitoring	yes					
Cooling	yes			-		
Emergency ventilation	yes			-		
Fire Extinguisher						
Extinguisher Gas	10L (3kg) , FM200			-		

Notes: IDU product solutions can be customized depending on the number of cabinets, different backup time, UPS, air conditioning.

* Standard product includes one power cabinet, one IT cabinet and one air conditioner(optional), and can be customized.

Integrated Data Center Module(IDM)

IDM integrates cabinets, power supply and distribution system, cooling system, monitoring system, cabling system. As an All-In-One solution, IDM features quick deployment, energy Efficiency, smart management, safety and reliability.



Technical Specifications

Mode	IDM-16C5	IDM-20C5	IDM-16C8	IDM-20C8	IDM-16CT	IDM-20CT	IDM-16CF
Structure and cabinets							
Installation area(m²)	≥24	≥30	≥24	≥30	≥24	≥30	≥24
Installation height(m)	2.6						
Cabinet size(W×D×H)mm	600×1100×2000(42U)						
Power							
Total IT capacity(kW)	55	75	80	104	90	130	120
Redundant architecture	N+X						
Power format	Input: 380V/3P;Output:380V/3P						
UPS power(kVA)	100	120	140	160	140	180	200
Backup time(min)	10、 15、 30、 60、 120、 240min						
Cooling							
Redundant architecture	N+1						
Cooling Capacity(kW)	23	25	23	40			
Width(mm)	300	400	300	600			
Monitoring							
Temperature and humidity sensors	Sdandard configuration two,can local precision monitoring according to customer requirement						
Smoke sensors	2						
Leak detection	Yes						
Camera	2						
UPS	Yes						
Power distribution monitoring	Yes						
AC monitoring	Yes						
KVM	Optional						

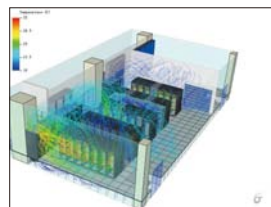
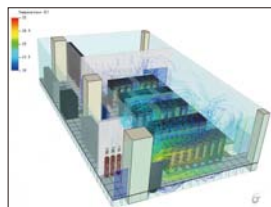
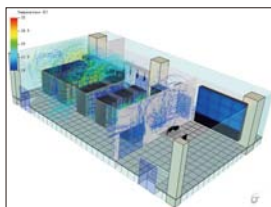
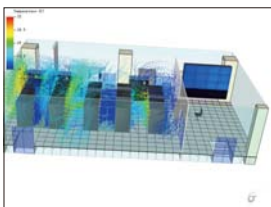
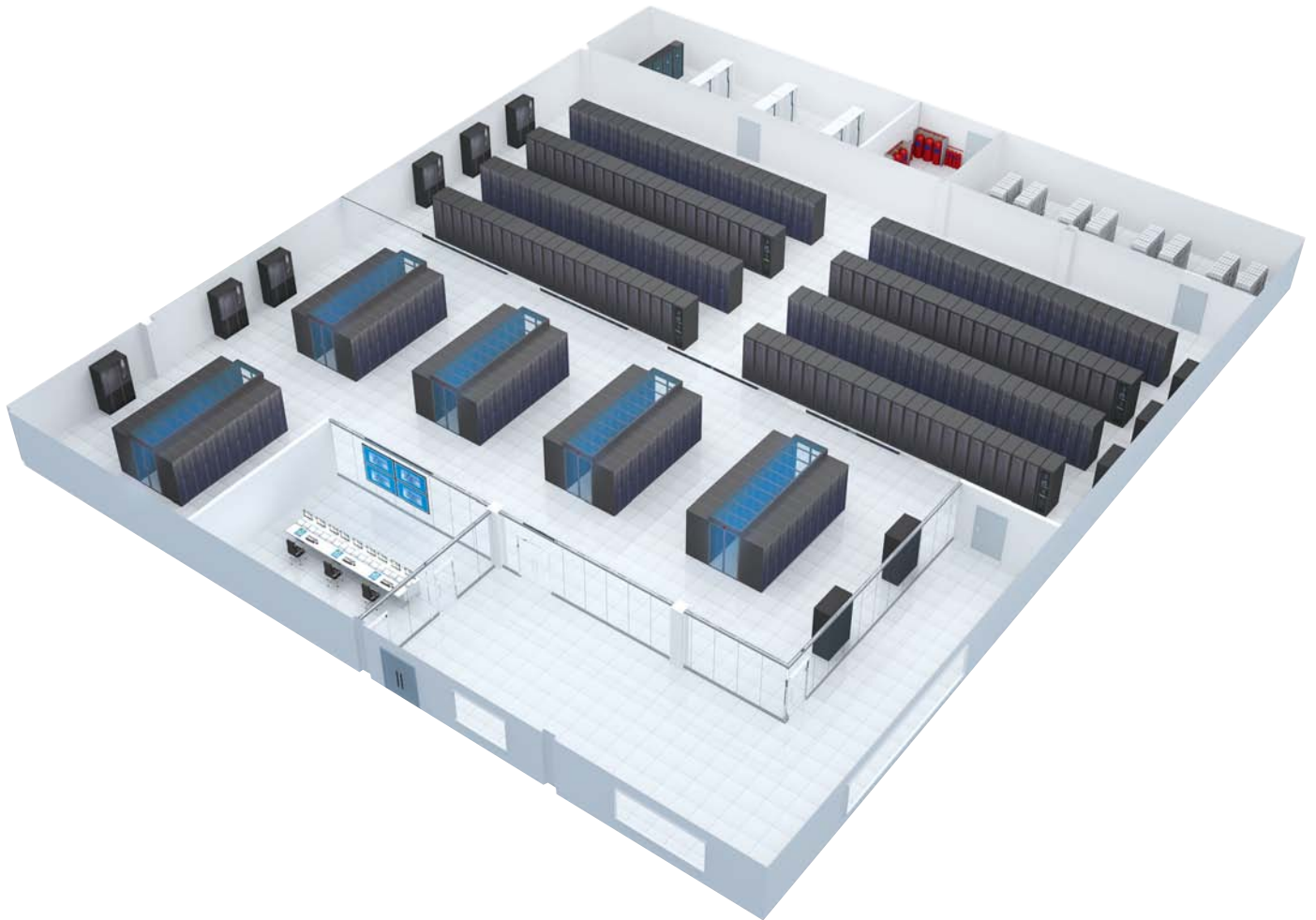
Notes

IDM product solutions can be customized depending on the number of cabinets, power densities, power modes , different backup time, UPS, air conditioning.

Large-scale Data Center Solution(IDR)

IDR (Integrated Data Center Room), the medium to large data center solution which integrates precision air conditioning, precision power distribution, rack, cold aisle containment system.

Solutions include: power supply and distribution system solution, cooling system solution, cabinets and cold aisle solution, monitoring and management solution, and CFD simulation. We provide strong support to the core products solution consulting and design in the medium to large data center construction.



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