



One Row Intelligent IDU



Configuration with
air conditioner



Configuration without
air conditioner



Single cabinet
configuration

General introduction

PowerUps IDU integrate with cabinets, monitoring, power supply and distribution system, batteries, inrow air conditioner and other infrastructure; PowerUps IDU can support one row sealed cold/hot aisle, battery packs can be configured inside or outside the cabinets.

Application

PowerUps IDU is better to be used in the small to medium data center of which power is less than 20kVA and space is less than 50m², computer room of large enterprises branch, financial service network, school, hospital, retailing, government department and so on.

Value to customer

Ease of Use

- Modularization component, standardization interface, quick installation on site
- Prefabricate assembly, plug and play, simple setting
- Centralized monitor, intelligent management, remote monitor

High efficiency

- Flexible configuration by high-efficiency power modules
- Short distance of cooling path, sealed aisle, cold air and hot air separation, avoid hot spot, total PUE is less than 1.5

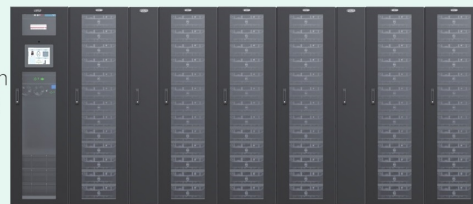
Safety

- Sealed micro environment, dust-proof, noise-proof, little affected by the environment, lifetime lengthens 1 to 2 times.
- Key subsystem can be configured as N+1/N design and enhance the stabilization of the system.

Recommendation for the minimal configuration of IDU



Recommendation for the maximum configuration of IDU



Specification

General characteristics

Dimension(mm)	L × 1400 × 2000, 600 ≤ L ≤ 4800
Number of cabinets	1~8
Power	3~20kVA
Reliability	Tier II or above
Installation	Deploy on flat ground

Power	3~10kVA	10~20kVA
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UPS

Input	220/230/240Vac, 50/60Hz, 1Ph+N+PE	380/400/415Vac, 50/60Hz, 3Ph+N+PE
Output power factor	≥ 0.9	
Nominal capacity	3~10kVA, Support single UPS running or working in parallel	15~20kVA, Support single UPS running or working in parallel
Maintenance bypass	Support	
Efficiency	≥ 92%	≥ 94%

Cooling system

Cooling capacity	3.8(Rack-mounted) / 5.5 / 7.5	7.5 / 12.5
Dimension (W × D × H) mm	300 × 1200 × 2000 466 × 720 × 266(3.8kW)	300 × 1200 × 2000
Cooling type	Air cooling	

Cabinet

Air supply method	Front supply, back return, total sealed
Dimension(W × D × H) mm	600 × 1200 × 2000
Available space	42U
Optional	Blind plate, L bracket, Movable/fix tray, cable management arm, sealed module
IP level	IP20

Power distribution

Input	220/230/240Vac, 50/60Hz, 1Ph+N+PE	380/400/415Vac, 50/60Hz, 3Ph+N+PE
Input	Single input/Dual input	
Number of output branch	2~8	2~14
Lightning protection	C level lightning protection	

Monitor system

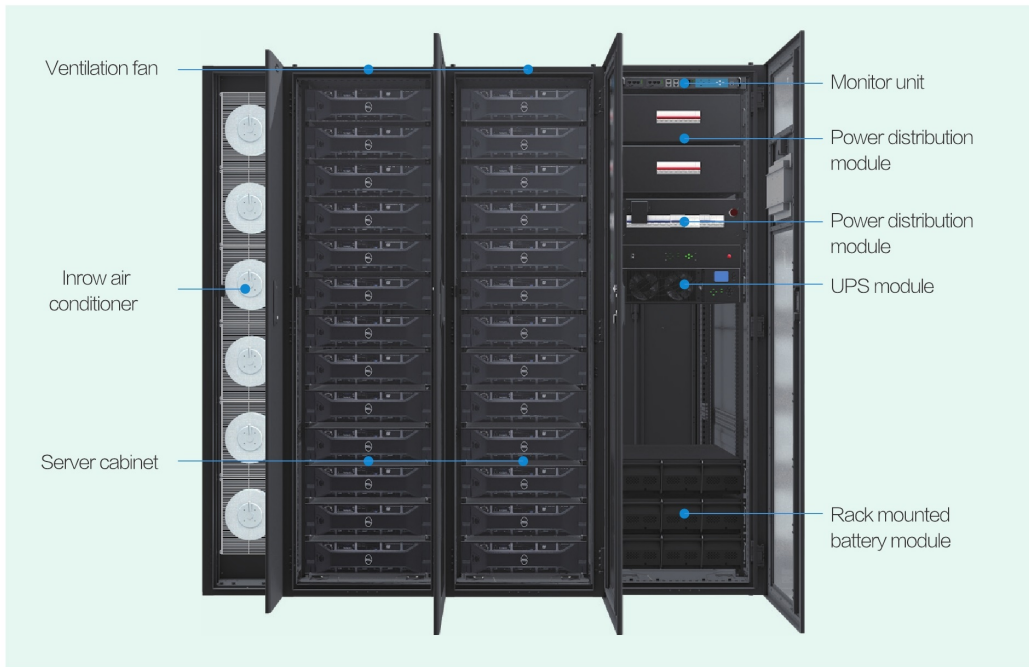
Alarm	Sound and light alarm, Phone call alarm, SMS alarm, E-mail alarm
User interface	Remote web interface, 10 inch touch screen, APP, Wechat
User interface	Centralized management(UPS/CRAC/Power distribution etc.), entrance guard management, CCTV management, alarm management, environment management(temperature and humidity, smoke sensor, water leakage)

Fire protection(Optional)

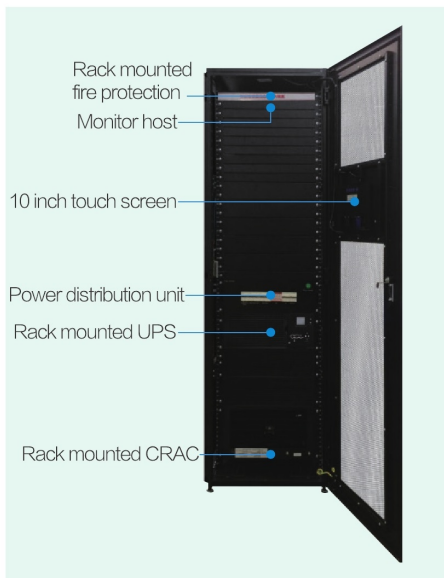
Fire protection module	FM200
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One Row Intelligent IDU

Internal layout of one row intelligent IDU

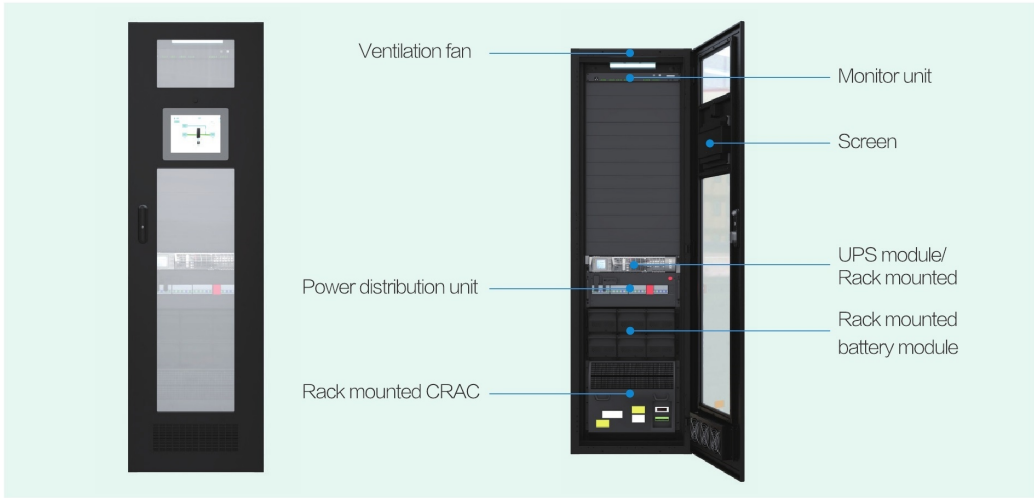


Internal layout of one cabinet intelligent IDU



Cabinet	
Dimension (W×D×H) mm	600×1400×2000
Available space(U)	25 (Not contain battery inside)
UPS	
UPS Power (kVA)	3/6
Rack mounted CRAC	
Rated cooling capacity(kW)	3.8
Power distribution	
Input voltage(V)	220
Input phase (Ph)	1
Input frequency (Hz)	50
Power cable in	Top/bottom cable in
Optional	
Fire protection	Optional
Monitor	
Display on site	10 inch touch screen
Temperature/humidity sensor	Yes
Smoke sensor	Yes
Water leakage detection	Yes
UPS	Yes
Precision power distribution monitor	Yes
Emergent ventilation	Yes

Internal layout of one cabinet intelligent IDU



Specification

Mode	IDU-03AN	IDU-06AN
	One integrated cabinet	One integrated cabinet
Physical features		
Appearance	Full sealed design, flexible configuration	
Dimension	600 × 1400 × 2000	
Power distribution		
Dimension (W × D × H) mm	600 × 1400 × 2000	
Input	220V/1Ph/50Hz	
Power cable in	Top/bottom cable in	
Input breaker	63A/1P	
UPS Power(KVA)	3	6
Available space	23	20
Backup time (min)	30	15
CRAC(Rack mounted and without outdoor unit)		
Rated cooling capacity(KW)	3.5	
Dimension (W × D × H) mm	440 × 940 × 356	
Number	1	
Monitor		
Display on site	10 inch touch screen	
Temperature/humidity sensor	Yes	
Smoke sensor	Yes	
Water leakage detection	Yes	
UPS	Yes	
Precision power distribution monitor	Yes	
Air conditioner	Yes	
Emergent ventilation	Yes	
Fire fighting		
Fire protection(rack mounted)	Optional	

IDU Subsystem



Australia PowerUps
 Address : 73 Boomerang Place, Seven Hills, NSW 2147, Australia
 Website : www.powerups.com.au
 Tel : 61 2 9831 8412
 Email : enquiry@powerups.com.au