



-Integrated Data Center Unit- KSTAR IDU Series Data Center Solution

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Product Overview

Product Introduction

The Kstar IDU intelligent micro-unit data center integrates the cabinet system, power distribution system, UPS system, cooling system, monitoring system, fire fighting system and other subsystems. Occupied small footprint, the IDU integrated solution is flexible to expand and can be deployed quickly due to the pre-fabricated. To realize the energy-saving target of lower PUE, IDU is equipped with sealed cold aisle and hot aisle standardly while short cooling path reducing the loss of cold air dramatically.

Single cabinet



Double cabinets



Multiple cabinets (3-9)



Application scenarios

- Small /micro air-cooled data center solution
- Small branches of financial industry
- Government industry city data center, district and county computer room
- The area of computer room is less than 30m²
- The access room and convergence room of 5G communication industry
- Small and medium-sized enterprise self-use computer room
- Other computer room of service facilities

Specification

Configuration General	Single/Double cabinets	Multiple cabinets
Number of cabinets	1/2	3-9
Sealed aisle	Hot and cold sealed aisles/Cold sealed aisle/No sealed aisle	
Cooling	Rack-mounted/In-row	
Battery deployment mode	Battery pack/Battery cabinet/Battery box/Battery rack	Battery cabinet/Battery box/Battery rack
Installation	Deploy on flat ground or deploy on raised floor	
Nominal voltage (Vac)	220/230/240, 1Ph+N+PE	380/400/415, 3Ph+N+PE
Fire fighting system (Optional)	Rack-mounted	
Wiring system (Optional)	Electricity cable tray/Electronic cable tray	
Power Distribution System		
Input	Single input/Dual input (ATS optional)	
Input breaker	63/1P*1	125/1P or 125/3P or 160/3P or 250/3P or 320/3P
UPS capacity (kVA)	3/6/10	10/15/20/30/40/60/80/90/120
UPS system redundancy	N/N+1	N/N+1/2N (N=1)
Lightning protection level	Class C	
Maintenance bypass	32A/2P	63A/2P or 100A/2P or 40A/4P or 80A/4P or 125A/4P
Air conditioner switch (Standard)	40A/1P*2 or 63A/1P*2	40A/3P*(2-4) or 63A/3P*(2-3)
Output branch (Standard)	32A/1P*8 or 32A/1P*10	1. UPS distribution module: 1) 32A/1P*(3-14) 2) 12V DC power (12.5A/29A) 2.Expansion module: 32A/1P*(8/12/16/20)
Intelligent electric meters	Standard	
Battery type	Lead-acid battery/Lithium battery	
Cooling System		
Power supply	Utility power	
Cooling system redundancy	N/N+1	
Single cooling capacity (kW)	3.5~12.5	7.5~12.5
Compressor type	Variable frequency	Constant frequency/Variable frequency
Monitoring System		
LCD display	7 inch touch screen (10.4 inch optional)	
Audible & Visual alarm	Optional	
T&H sensor	Standard	
Smoke sensor	Standard	
Water leakage sensor	Optional	
Door sensor	Standard	
Centralized monitoring of power distribution and cooling	Standard	
Electronic password lock	Optional	
Face recognition	Optional	
Fingerprint reader	Optional	
CCTV	Optional	
BMS	Optional	