

Low-Voltage Power Distribution Units

Effective Data Center Power Management



Transform infrastructure with intelligent solutions

Avail's extensive experience with switchgear design and production makes us the logical choice for Power Distribution Units (PDUs). A PDU is your mission-critical lifeline, a sophisticated electrical device designed to distribute electric power to multiple devices while providing essential protection, monitoring, and control capabilities.

Avail manufactures 'intelligent' PDUs that can be remotely managed, monitoring power usage and notifying users when power thresholds are exceeded. These units provide a redundant power supply to protect a data center against outages and surges.

Avail's rack power solutions empower data centers to operate at peak performance while maintaining reliability and efficiency. Whether managing server racks or optimizing energy use, Avail Critical Power Solutions' PDUs are the intelligent choice for scalable and effective power distribution.



Standard

- UL 60950-1 Power Distribution Unit

Enclosure Specifications

- Main Cabinet: UL 891
- 150 kVA: 24"W x 42"D x 82"H
- Ventilation: Front/Rear Transformer Section, UL 50, Top 5" Lift Off Removeable Section
- Mounting: Floor Mounted (Optional Heavy-Duty Casters)
- Control Comp: Isolated with Glastic Barrier

General Requirements

- Input: 480V AC, 60 Hz, 3P, 3W, MLO/3P Incomer CB
- Output: 208/120V AC, 60Hz, 3P, 4W, Multiple Outlet
- Power: 150 KVA

Environment Specifications

- Temperature: 40°C
- Humidity: 95% Non-Condensing
- Altitude: 1000m Above Sea Level

Transformer Specifications

Rating	Specification
Primary	Delta Connected, 480V, 3P, 3W
Secondary	Star Connected, Single Output, 208/120 V AC
Frequency	60 Hz
Rating	150 KVA, 200% Neutral
Winding	Aluminum Wound
Impedance	5%
K Factor	K9, 200% Neutral
Sound Level	<58DB



Panel Board/Breaker Specifications

Rating	Specification
Incoming Breaker	250A 3P Electronic Trip
Output Breaker	225A 3P Electronic Trip
Subfeed Breakers	(4) 225A Spaces
Panel Board	400A Rated Bus with 16 Spaces



Monitoring Specifications

Items	Specification
Breakers	Electronic Trip Breakers with ModBus
Communication	Modbus RTU/TCP & BacNet
BMS Connection	Optional Gateways for Other Protocols
HMI	7" Touch TFT Screen



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