



PDU Unit

NAVIGATE THE FUTURE



CORE ENGINEERING & ARCHITECTURE

- **Monolithic Protection:** Custom sheet metal heavy-duty industrial enclosure designed for demanding sub-fab and server room spaces.
- **Thermal Intelligence:** Engineered dual-ventilation lateral grilles optimized for continuous, high-efficiency heat dissipation.
- **Ergonomic Integration:** Rugged secure-latch front-access panel layout with integrated dual heavy-duty structural hinges.
- **Mobility Engine:** Built-in omnidirectional heavy-duty industrial casters alongside high-stability floor leveling pads.

BREAKTHROUGH CAPABILITIES

- **Common Mode Noise Defense:** Embedded Shielded Isolation Transformer protects high-sensitivity components against grid irregularities.
- **Unified Grounding Matrix:** Features a Single System Ground Point to drastically simplify site installation and eliminate ground loops.
- **Instantaneous Trip Safeguard:** High-speed Circuit Breaker Protected Branching Circuits deliver isolated safety to separate display matrices.
- **Transient Suppression Engine:** Comprehensive transient protection prevents downstream equipment wear from voltage and line spikes.
- **Custom Line Filtering:** Integrated proprietary line noise filtering to eliminate load switching transient problems.

TECHNICAL SPECIFICATIONS

Parameter / Field	Technical Specification Standard
System Classification	High-Performance Industrial Cabinet PDU
Cabinet Configuration	Free-Standing Form Factor with Dual Side Intakes
Safety Architecture	Integrated Front Panel Emergency Stop (E-Stop) Switch
Status Telemetry	High-Visibility LED Run Indicator (Green Beacon)
Service Design	Front-Access Zero-Clearance Structural Service Hatch
Enclosure Protection	Dust-Resistant Industrial Powder-Coated Finish
Isolation Design	Multi-Tap Low-Noise High-Efficiency Isolation Core

TECHNICAL SPECIFICATIONS

System Niche Layer	PDU Attribute	Technical Specifications	Advanced Enhancement
Electrical Infrastructure	Input Electrical Supply	Three-Phase / Single-Phase AC input feed support	Auto-sensing power factor corrected inlet
Electrical Infrastructure	Electrical Protections	Under/Over-Voltage Relays, Class C SPD Protection, Surge Protection	Integrated arc-fault circuit interruption (AFCI)
System Control & Automation	Thermal Shutdown System	Over-Temperature automated shutoff (30°C to 60°C)	Intelligent dual variable-speed exhaust fans
System Control & Automation	Alarm & IP Remote Control	Dry Contact terminals + IP-Ethernet controller	SNMP v3 encrypted remote power cycling
Structural Architecture	Cabinet Construction Material	SGLCC / GI-120 GSM Galvanized Steel (≥ 1.5mm thickness)	Ultra-structural anti-vibration framing
Structural Architecture	Cabinet Exterior Finish	Electrostatic Powder Polymer (EPP) coating	UV-Stabilized scratch-resistant armor
Internal Configuration	Equipment Storage Space	Integrated standard 19-inch equipment rack frame	Sliding cantilever rack rails with cable tray
Internal Configuration	Mounting Configuration	Floor Mount / Pole Mount modular system	Anti-seismic concrete anchor pad templates
Environmental Defense	Ingress Protection Rating	Outdoor/Indoor IP54 / IP55 / IP65 Compliant	Salt-fog and high-humidity marine resistance
Environmental Defense	Access Door Mechanism	Dual heavy-duty hinges + Key-Locking + Limit Switch	Biometric or RFID smart-card access slot
Alarm Output		Dry Content Alarm	
Networking		Relay and I P Based Remote Network	



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