

NOVA™

Power Distribution Units (PDUs)



Application

Engineered for mission-critical power environments, this intelligent Power Distribution Units (iPDU) delivers precise monitoring and robust protection across enterprise and edge infrastructures. It is ideal for the Enterprise Data Centers and other AC powered Data Center facilities requiring seamless DCIM integration and centralized power management across many racks. The iPDU's multi-layer circuit protection and real-time, remote current monitoring also make it a dependable solution for Telecom Central Offices, Edge Computing Nodes, and Co-location Facilities where maximizing uptime, continuous remote visibility, and hardware safety are top-of-mind.



Description

Clearfield® NOVA Enterprise level intelligent and standard Power Distribution Units (PDUs) at the equipment or data center rack are a vital point in the power chain for the continuous uptime of critical services. Clearfield offers 1-Phase and 3-Phase iPDUs for high density server and networking applications, allowing customers to consolidate more equipment into fewer racks. With a 0RU footprint, NOVA iPDUs fit into any full-size Clearfield NOVA Network or Server Cabinets with ease without taking up any RU spacing in the equipment rack.

Intelligent 1-Phase or 3-Phase Internet Protocol PDUs (ZS and ZSI Models) are embedded with dual Gigabit Ethernet LAN ports for remote IP access, while standard PDUs (M Models) offer serial connectivity. All PDU series feature newly designed smart meters with combo C13/C19 and standard C13 outlets.

Monitored and switched iPDU models are available to provide comprehensive remote monitoring and on/off outlet switching functionality from anywhere in the world. Outlet measurement models are also available. Meeting all applicable compliance requirements including NEC, UL, and RoHS, Clearfield offers a NOVA PDU model that will fit your enterprise AC power distribution needs.

Features and Benefits

Space Utilization

- 0 RU units take up no rack space in the Network or Server Cabinet, mounting in the rear of the cabinet out of the way of the relay rack. This frees up more space for servers or network switches in the rack.

Intelligence

- Outlet, circuit and strip level monitoring and switching available depending on the selected PDU model.
- Supporting 10/100 & gigabit LAN ethernet, Z and M series 1-phase/ 3-phase PDUs can be inter-cascaded in a single daisy-chain, up to 32 PDU levels, for a cost-effective solution while still providing the required level of remote management and monitoring.

Safety

- Designed with enterprise-grade safety standards, the iPDU integrates multi-stage electrical defense to ensure maximum operational security and uptime.
- Circuit protection features Magnetic Circuit Breakers (MCB), Earth-leakage Circuit Breakers, and resettable fuses for reliable overcurrent protection.
- To ensure clean power delivery and uninterrupted monitoring, the unit incorporates an EMI Filter, Surge Protector, and a Residual Current Monitor (RCM) to safeguard sensitive hardware from power anomalies and ground faults.

DCIM Compatible

- Designed for deployment in modern data centers, the iPDUs offer robust DCIM compatibility and simultaneous dual-interface management.
- Operators can seamlessly manage and monitor power assets through either the dedicated IPM-04 software platform or an intuitive Web-based GUI.
- Featuring full support for SNMP v2c and v3 protocols, the unit integrates smoothly into a wide array of third-party Data Center Infrastructure Management (DCIM) systems.

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Technical Specifications

NOVA iPDUs						
	1-Phase			3-Phase		
	M	ZS	ZSi	M	ZS	ZSi
Rack Mounting	0 RU					
Input Voltage	100–120V AC, 200–240V AC			208V AC		
Input Current	20A & 30A			20A, 30A & 60A		
Input Plug Types	L6-20P & L6-30P			L21-20P, L21-30P & IEC 60309 3P+E 9hr		
Output Plug Types	C13 outlet (18), combo C13 / C19 outlet (6)					
Power Cord Length	3M Standard					
Operating Temperature	-5°C to 60°C					

Pre-Configured Part Numbers

Part Number	Description
VT-1M2-L620-18C13-6X19	M-circuit level monitored PDU (expansion unit), vertical 0U, 208V / 20A, C13 outlet (18), combo C13 / C19 outlet (6) & top feed, 3M cord with L6-20P plug
VT-1M3-L630-18C13-6X19	M-circuit level monitored PDU (expansion unit), vertical 0U, 208V / 30A, C13 outlet (18), combo C13 / C19 outlet (6) & top feed, 3M cord with L6-30P plug
VT-1Z2-L620-18C13-6X19	ZS-switched PDU with circuit level measurement (master unit with embedded IP), vertical 0U, 208V / 20A, C13 outlet (18), combo C13 / C19 outlet (6) & top feed, 3M cord with L6-20P plug
VT-1Z3-L630-18C13-6X19	ZS-switched PDU with circuit level measurement (master unit with embedded IP), vertical 0U, 208V / 30A, C13 outlet (18), combo C13 / C19 outlet (6) & top feed, 3M cord with L6-30P plug
VT-1I2-L620-18C13-6X19	ZSi-switched PDU with outlet level measurement (master unit with embedded IP), vertical 0U, 208V / 20A, C13 outlet (18), combo C13 / C19 outlet (6) & top feed, 3M cord with L6-20P plug
VT-1I3-L630-18C13-6X19	ZSi-switched PDU with outlet level measurement (master unit with embedded IP), vertical 0U, 208V / 30A, C13 outlet (18), combo C13 / C19 outlet (6) & top feed, 3M cord with L6-30P plug
VT-3M2-L212-18C13-6X19	M-circuit level monitored PDU (expansion unit), vertical 0U, 208V 3PH / 20A, C13 outlet (18), combo C13 / C19 outlet (6) & top feed, 3M cord with L21-20P plug
VT-3M3-L213-18C13-6X19	M-circuit level monitored PDU (expansion unit), vertical 0U, 208V 3PH / 30A, C13 outlet (18), combo C13 / C19 outlet (6) & top feed, 3M cord with L21-30P plug
VT-3M6-4PEN-18C13-6X19	M-circuit level monitored PDU (expansion unit), vertical 0U, 208V 3PH / 60A, C13 outlet (18), combo C13 / C19 outlet (6) & top feed, 3M cord with IEC 60309 3P+E 9hr blue plug
VT-3Z2-L212-18C13-6X19	ZS-switched PDU with circuit level measurement (master unit with embedded IP), vertical 0U, 208V 3PH / 20A, C13 outlet (18), combo C13 / C19 outlet (6) & top feed, 3M cord with L21-20P plug
VT-3Z3-L213-18C13-6X19	ZS-switched PDU with circuit level measurement (master unit with embedded IP), vertical 0U, 208V 3PH / 30A, C13 outlet (18), combo C13 / C19 outlet (6) & top feed, 3M cord with L21-30P plug
VT-3Z6-4PEN-18C13-6X19	ZS-switched PDU with circuit level measurement (master unit with embedded IP), vertical 0U, 208V 3PH / 60A, C13 outlet (18), combo C13 / C19 outlet (6) & top feed, 3M cord with IEC 60309 3P+E 9hr blue plug
VT-3I2-L212-18C13-6X19	ZSi-switched PDU with outlet level measurement (master unit with embedded IP), vertical 0U, 208V 3PH / 20A, C13 outlet (18), combo C13 / C19 outlet (6) & top feed, 3M cord with L21-20P plug
VT-3I3-L213-18C13-6X19	ZSi-switched PDU with outlet level measurement (master unit with embedded IP), vertical 0U, 208V 3PH / 30A, C13 outlet (18), combo C13 / C19 outlet (6) & top feed, 3M cord with L21-30P plug
VT-3I6-4PEN-18C13-6X19	ZSi-switched PDU with outlet level measurement (master unit with embedded IP), vertical 0U, 208V 3PH / 60A, C13 outlet (18), combo C13 / C19 outlet (6) & top feed, 3M cord with IEC 60309 3P+E 9hr blue plug

Configured Part Numbers

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1 Select Phase

1 = Single Phase
3 = 3 Phase

3 Select Amperage

2 = 20A
3 = 30A
6 = 60A (3 Phase Only)

4 Select Plug Type

L620 = NEMA L6-20P Plug
L630 = NEMA L6-30P Plug
L212 = NEMA L21-20P Plug
L213 = NEMA L21-30P Plug
4PEN = IEC 60309 3P+E (Pin & Sleeve) Plug

2 Select Series

M = M Series
Z = ZS Series
I = ZSI Series