

# Edge-DC-48VDC Power Distribution Unit



The nVent Edge-DC-48VDC Power Distribution Unit (DCDU) is designed to provide efficient, safe, and reliable power distribution for telecom and edge computing environments. This unit ensures optimal performance and protection for your critical infrastructure.

## FEATURES

High Power Capacity: Robust 250 A 48 VDC input

Blind Mating Capability: Supports switched and metered DC Modules from 10 A to 60 A

Circuit Breaker Trip Alarm: Immediate notification for enhancing response times

Compliance with Industry Standards: UL/CE certified

Hot Swappable Breakers with Precise Metering: For energy, power, current, and voltage at both input and device levels

Granular Control with Device Level Switching: Management of individual devices for optimized performance

Billing Grade Monitoring: Identification of potential system failures

Smart Alerting System: Informs about overcurrent, overvoltage, undervoltage, and other threshold breaches

Controller Interface: TCP or IP network connection

Local Management: Features front panel push-button to toggle module output. Panel status LED indicator quickly relays module information to local user



## SPECIFICATIONS

Table 1/2

| Catalog Number | Product Type      | Circuit Breaker                  | Circuit Breaker Quantity | Depth | Input Voltage DC | Metering Type |
|----------------|-------------------|----------------------------------|--------------------------|-------|------------------|---------------|
| 21280-001      | Power Distributor | - 48 VDC 60 Amp, - 48 VDC 35 Amp | 10                       | 410mm | -48V min         | Outlet        |
| 21280-002      | Power Distributor | - 48 VDC 60 Amp, - 48 VDC 35 Amp | 8                        | 410mm | -48V min         | Outlet        |
| 21280-003      | Power Distributor | - 48 VDC 35 Amp                  | 8                        | 410mm | -48V min         | Outlet        |

Table 2/2

| Catalog Number | Number of Switched Outlets | Rack Height | Rack Width | Rated Current | Type        |
|----------------|----------------------------|-------------|------------|---------------|-------------|
| 21280-001      | (2) 60 A, (8) 35 A         | 3U          | 84HP       | 250A          | - 48 V DCDU |

| Catalog Number | Number of Switched Outlets | Rack Height | Rack Width | Rated Current | Type        |
|----------------|----------------------------|-------------|------------|---------------|-------------|
| 21280-002      | (4) 60 A, (4) 35 A         | 3U          | 84HP       | 250A          | - 48 V DCDU |
| 21280-003      | (8) 35 A                   | 3U          | 84HP       | 250A          | - 48 V DCDU |

### ADDITIONAL PRODUCT DETAILS

For exact configuration please refer to the item(s) delivered table.

### WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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