



an EnerSys® company

DPX Disconnect and Junction Box



- IP68 rated enclosure provides maximum flexibility for various installation options (pole/wall/underground/aerial)
- Integrated emergency power off switch enables utility companies to shut down power to downstream devices
- Built-in surge protection device (SPD) offers secondary level protection for each channel using EnShield™ technology from the DPX Power Source enclosure system
- Remote SPD status reporting via the Cordex® HP system controller

The DPX Disconnect and Junction Box is part of the distributed power transport product family specifically engineered using the new Alliance for Telecommunications Industry Solutions (ATIS) fault managed power distribution technology.

The DPX Disconnect and Junction Box serves as a connection point to handle the incoming fault managed power pairs and outgoing connections to the DPX 1350W Downconverter.

The Class 4 rated DPX Disconnect and Junction Box has a built-in surge suppressor that is monitored by the system controller and provides primary protection for the DPX 1350W Downconverter against lightning strikes and other over voltage conditions. The emergency power off switch integrated into the enclosure provides a disconnect mechanism to interrupt power to all other downstream devices.

Distributed power transport architecture enables operators to deploy their network faster by eliminating the need to have AC utility power at each small cell location. At a central location, the central power hub converts the incoming AC power to fault managed power which is transported over a hybrid or copper only cable to a disconnect box and then to a down converter device located approximately 6000 ft away. This reduces installation and operating expenses, and provides flexibility related to site selection for the installation of the remote communications equipment.

DPX Disconnect and Junction Box

PN: 7401037-001

Electrical	
Input Voltage	±145 to ±200 Vdc
Output Voltage	±145 to ±200 Vdc
Max Current	6 A
Features	
Protection	<ul style="list-style-type: none"> • 1 × 20 kA DC surge suppression • Lockout
Mechanical	
Dimensions H × W × D	239 × 160 × 114 mm (9.4 × 6.3 × 4.5 in.)
Weight	2.3 kg (5.1 lb)
Connection	Input: 2 pair × 12 AWG (4 mm ²) or 14 AWG (2.5 mm ²) cable size
	Output: 1 pair × 16 AWG (1.5 mm ²)
	Ground: 1 × 6 AWG (16 mm ²)

Environmental	
Temperature	Operation: -40 to 46 °C (-40 to 115 °F) plus solar loading
	Storage: -40 to 80 °C (-40 to 176 °F)
Relative Humidity	5 to 95% non-condensing
Elevation	Up to 3,000 m (9,842 ft)
Enclosure Rating	IP68
	Type 6P
Agency Compliance	
Safety	<ul style="list-style-type: none"> • IEC/EN/CSA/UL 62368-1 (Pending) • CE Mark (Pending) • UKCA Mark (Pending)

PRELIMINARY



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