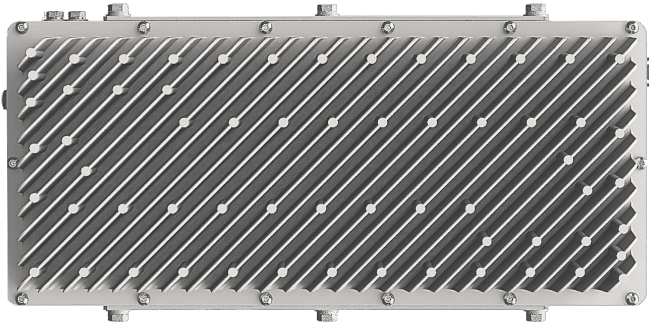




an EnerSys® company

DPX 1500W Downconverter



- Type 6 rated enclosure provides maximum flexibility for various installation options (pole, wall, underground, or aerial)
- Extended operating temperature for deployment in the harshest outdoor environments
- Remote monitoring via the Cordex® HP controller system offers advanced monitoring and control of the single output channel including power cycling, voltage, and current readings
- Class 4 rated input circuit for fault managed safety

The DPX 1500W downconverter 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 1500W downconverter converts the incoming ± 190 VDC voltage to 48 VDC to power a multitude of communications devices such as small cells, remote radio heads (RRH), and Internet of Things (IoT) devices.

The device provides one isolated output from a single 12 AWG (4 mm²), 14 AWG (2.5 mm²), or 18 AWG (0.75 mm²) hybrid or copper cable. This output can deliver a maximum of 1500 watts at 48VDC of total power to remote communication equipment from the DPX power source enclosure system. The maximum distance between

the DPX power source enclosure system and the DPX 1500W downconverter is dependent on cable gauge, number of pairs, and load power.

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. This reduces installation and operating expenses, and provides flexibility related to site selection for the installation of the remote communications equipment.

DPX 1500W Downconverter

PN: 0120098-001

Electrical	
Input Voltage	Nominal: ±190 V
	Operating: ±158 to ±200 V
Output Voltage¹	56 VDC
Output Power	Maximum: 1500 W
	Minimum: 0 W
Output Current	31.25 A (maximum) at 48 VDC
Load Regulation	<±3% (static)
Features	
LED	Bicolor status/alarm LED
Protection	<ul style="list-style-type: none"> • Current limit and short circuit • Input reverse polarity • Output high voltage shutdown • Power limiting • Over temperature protection
Mechanical	
Dimensions H × W × D	8 × 18 × 4.3 in. (203.2 × 457.2 × 109 mm)
Weight	23.6 lb (10.7 kg)
Connection	Input: 1
	Output: 1 (isolated)
Mounting	Pole, Wall, Underground, Aerial
Communication	Power Line Communication (PLC)

Environmental	
Operating Temperature	-40 to 131 °F (-40 to 55 °C)
	Full rated output up to 104 °F (40 °C)
Storage Temperature	-40 to 185 °F (-40 to 85 °C)
Relative Humidity	5 to 95% non-condensing
Elevation	Up to 4,921 ft (1,500 m); derated to 9,842 ft (3,000 m)
Enclosure Rating	Type 6
Regulatory Compliance	
Safety	<ul style="list-style-type: none"> • Design to be compliant with IEC/EN/CSA/UL 62368-1 • Design to be compliant with UL 1400-1
EMC	<ul style="list-style-type: none"> • Design to be compliant with FCC CFR 47 PART 15/B -- Class A • Design to be compliant with CAN ICES-003(A)/NMB-003(A) • Design to be compliant with ETSI EN 300 386 • Design to be compliant with IEC 61000-4-2 • Design to be compliant with EN IEC 61000-6-4: 2019 • Design to be compliant with EN 61000-6-2: 2019 • Design to be compliant with EN 55032: 2015 + A11: 2020 • Design to be compliant with EN 55035: 2017 + A11: 2020 • Design to be compliant with ANSI/IEEE C62.41 Category B3
¹ Output voltage is floating.	

PRELIMINARY



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