



an EnerSys® company

# LPR48-300

±190VDC to 48VDC Remote Line Power Down-Converter Unit



- Remote powering module providing up to 300W output at 48VDC to power remote nodes
- Designed for installation in underground vaults, poles, walls and strand mount
- Wide operating temperature range for deployment in harsh OSP environments
- High reliability sealed and ruggedized design for a long life cycle
- Built-in holdup to ensure that the remote equipment rides through line surges

**The LPR48-300 is a compact, sealed, standalone, line powered down-converter unit designed for remote line powering applications using ±190VDC (RFT-V circuit) over twisted copper pairs.**

The LPR48-300 line powered down-converter contains four isolated down-converter circuits to convert the input from four (4) twisted copper pairs and provide up to 300W at 48VDC to remote telecommunication equipment.

Applications include powering mini-DSLAM's (sealed DSLAM's), Multi-Dwelling Units (MDU) in Fiber to the Home Networks (FTTH), Distribution Points (FTTdp) as well as outdoor small cells in wireless networks. The LPR48-300 line powered down-converter is sealed to an IP67 rating and may be discreetly deployed virtually anywhere: telecom vaults, pedestals, aerial strands, walls, lamp posts, poles, sides of buildings, bus stops, etc.

Line powering enables use of the existing centralized power node backup; eliminating the need at the remote site for AC utility or battery backup. This reduces installation and operating expenses, and provides flexibility related to site selection for the installation of the remote communication equipment.

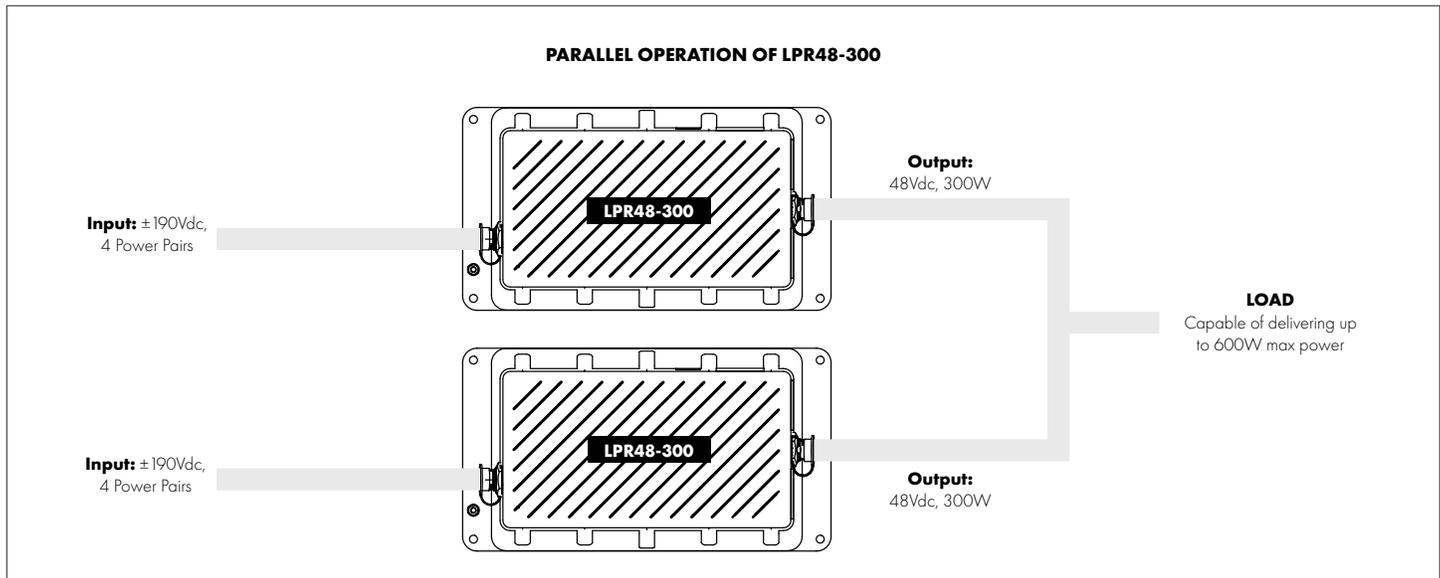
Power holdup capabilities are incorporated into the LPR48-300 line powered down-converter to provide at least 200 milliseconds of backup for a 300W load. The holdup prevents potential lengthy customer communication outages due to delayed remote node resetting (caused by line surges), ensuring maximum network reliability.

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P/N: 0370445-001

Electrical	
<b>Input Voltage:</b>	200 to 380VDC (±100 to ±190VDC)
<b>Number of Inputs:</b>	4
<b>Input Current Per Feed:</b>	245mA max
<b>Output Voltage:</b>	-54 to -56VDC
<b>Output Power:</b>	Up to 300W (the power available from the unit depends on the distance from the up-converter and wire gauge of the twisted copper pairs)
<b>Number of Outputs:</b>	2
<b>Output Current (de-rates with input voltage):</b>	5.48A
<b>Efficiency:</b>	>92%
<b>Electrical Noise:</b>	<100mVRMS to 20MHz (wide band) <500mVp-p to 20MHz
<b>Holdup:</b>	>200 millisecond at 300W load
<b>Load Sharing:</b>	Within 10%
<b>Other Feature(s):</b>	Built-in paralleling capability
Mechanical	
<b>Dimensions:</b>	<b>mm:</b> 70H x 255W x 140D <b>inches:</b> 2.8H x 10.0W x 5.5D
<b>Weight:</b>	2.2kg (5lbs) - approximate
<b>Connections:</b>	Two IP67 sealed connectors (optional IP68 kit available)

Environmental	
<b>Temperature:</b>	<b>Operation:</b> -40 to 65°C (-40 to 149°F) <b>Storage:</b> -40 to 85°C (-40 to 185°F)
<b>Environmental Protection:</b>	IP67 (optional IP68 kit available)
<b>Humidity:</b>	5 to 95% RH
<b>Elevation:</b>	-500 to 2800m (-1640 to 9186ft)
Agency Compliance	
<b>Safety:</b>	<ul style="list-style-type: none"> <li>• IEC/CSA/UL 60950-1</li> <li>• Compatible with IEC/CSA/UL 60950-21 (RFT-V circuit)</li> <li>• IEC/CSA/UL 60950-22</li> <li>• Low Voltage Directive 2006/95/EC GR-1089-CORE Safety</li> </ul>
<b>EMC:</b>	CFR47 (FCC) Part 15 Class B EN 300 386 v1.6.1



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