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# Cordex HP LPS36 Compact

-48VDC to  $\pm 190$ VDC Compact OSP Line Power System



- High efficiency >92% for increased OPEX savings and reduced carbon footprint
- High temperature tolerance for installation in harsh OSP cabinet environments
- Industry leading power density, featuring 16 channels in a compact 2RU x 6" footprint
- High reliability convection-cooled design with optional fan tray

**The LPS36 is a modular DC to DC up-converter system designed for distributed power communications applications using  $\pm 190$ VDC (RFT-V circuit) over existing copper network. The LPS36 quad output converter module provides outstanding efficiency in a compact design.**

Applications include powering sealed DSLAM's, Distribution Point Units (DPU's) as well as Optical Network Terminals in Fiber to the Home Networks. Line powering enables the use of centralized power backup without the need for AC utility or battery backup at the remote site, thus reducing truck rolls and operating expenses.

The LPS36 Compact shelf provides up to 16 line powering channels in a small 2RU x 6" x 12" form factor. Standard systems include alarms for monitoring, connectorized cable output and one side mounting. This product is particularly suitable for installation in remote OSP power cabinets where free rack space is tight or nonexistent. With only 6" width and a single side bracket, the LPS36 Compact can easily mount to the side of a rack support post without occupying valuable rack space.

Alpha's LPS36 modular DC to DC converter systems incorporate a full range of standard features, including current limiting and individual ground fault interrupt for each channel. Compliance with GR-1089-CORE - Class A2 enables craftspeople to work on the equipment while powered, which significantly reduces the administration, labeling requirements and overheads for the high voltage wiring.

# -48VDC to ±190VDC Compact OSP Line Power System

P/N: 0300189-004

Electrical	
<b>Input Voltage:</b>	-40 to -60VDC
<b>Output Voltage:</b>	±190VDC
<b>Power:</b>	96W typical per output (4 outputs per module)
<b>Efficiency:</b>	>92%
<b>Regulation:</b>	<2% no load to full load <1% line
<b>Noise:</b>	<b>Wide band:</b> <500mV RMS (10kHz to 10MHz) <2.5V pk to pk (10kHz to 100MHz)  <b>Acoustic:</b> <60dBa @ 1m (3ft), 55 °C
Mechanical	
LPS36 Quad Output Power Module	
<b>Dimensions:</b>	<b>mm:</b> 86H x 35W x 283D <b>inches:</b> 3.4H x 1.4W x 11.1D
<b>Weight:</b>	0.73kg (1.4lbs)
Shelves	
6" Compact shelf - 4 modules	
<b>P/N 0300189-004</b> Accomodate both center and flush mounting	
<b>Dimensions:</b>	<b>mm:</b> 88H x 149W x 305D <b>inches:</b> 3.6H x 5.9W x 12D
<b>Weight:</b>	1.5kg (3.3lbs)
Fan Tray, optional	
<b>P/N 0300189-002</b>	
<b>Dimensions:</b>	<b>mm:</b> 29H x 149W x 304D <b>inches:</b> 1.1H x 5.9W x 12D
<b>Weight:</b>	0.5kg (1.1lbs)

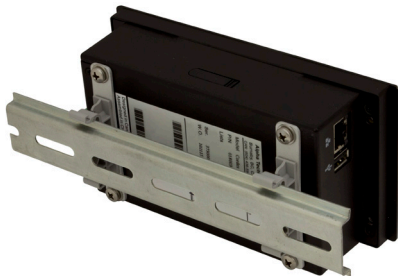
Connections	
<b>Input (length 7"):</b>	Anderson connector for 48VDC input Output (length 54"): 50-pin amp-champ style connector
<b>Alarm Cable(length 54"):</b>	TE Connector for alarm output
Agency Compliance	
<b>Safety:</b>	<ul style="list-style-type: none"> <li>• CSA/UL 60950-1</li> <li>• CSA/UL 60950-21 (RFT-V circuit)</li> </ul>
<b>EMC:</b>	ETSI 300 386
<b>Emissions:</b>	CFR47 (FCC) Part 15 Class A
<b>Immunity:</b>	EN 61000-4-2, 4-3, 4-4, 4-5, 4-6
<b>NEBS/Telcordia:</b>	<ul style="list-style-type: none"> <li>• GR-1089-CORE - Class A2</li> <li>• GR-63-CORE</li> <li>• GR-3108-CORE</li> </ul>
Related Components	
<ul style="list-style-type: none"> <li>• Input Lug Kit: 8700870-001</li> <li>• Output Alarm Cable: 8700649-001</li> <li>• Standalone CXC HP Controller: 0180036-002</li> <li>• CXC HP Controller Din Rail Mount Kit: 0370190-001</li> <li>• CAN Cable RJ12 to Offset RJ12: 877-176-47</li> </ul>	



Cordex CXC HP Controller  
(enables remote communication to LPS36 compact shelf)



Optional Fan Tray



Cordex CXC HP Controller  
Din Rail mount kit



LPS36 Compact Shelf



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