

# Cordex HP LPS36 Compact

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



*Your Power Solutions Partner*

- 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 $\pm 190$ Vdc Compact OSP Line Power System

P/N: 0300189-004

## ELECTRICAL

Input voltage: ..... -40 to -60Vdc  
Output voltage: .....  $\pm 190$ Vdc  
Power: ..... 96W typical per output  
(4 outputs per module)  
Efficiency: ..... >92%  
Regulation: ..... <2% no load to full load  
<1% line  
Noise:  
Wide band: ..... <500mV RMS (10kHz to 10MHz)  
<2.5V pk to pk (10kHz to 100MHz)  
Acoustic: ..... <60dBA @ 1m (3ft), 55°C

## MECHANICAL

### > LPS36 Quad Output Power Module

#### Dimensions:

mm: ..... 86H x 35W x 283D  
inches: ..... 3.4H x 1.4W x 11.1D

Weight: ..... 0.73kg (1.4lbs)

## SHELVES

### > 6" Compact shelf - 4 modules

P/N 0300189-004

Accomodate both center and flush mounting

#### Dimensions:

mm: ..... 88H x 149W x 305D  
inches: ..... 3.6H x 5.9W x 12D

Weight: ..... 1.5kg (3.3lbs)

### > Fan Tray, optional

P/N 0300189-002

#### Dimensions:

mm: ..... 29H x 149W x 304D  
inches: ..... 1.1H x 5.9W x 12D

Weight: ..... 0.5kg (1.1lbs)

## CONNECTIONS

Input (length 7"): ..... Anderson connector for 48Vdc input  
Output (length 54"): ..... 50-pin amp-champ style connector  
Alarm Cable (length 54"): ..... TE Connector for alarm output

## AGENCY COMPLIANCE

Safety: ..... CSA/UL 60950-1  
CSA/UL 60950-21 (RFT-V circuit)  
EMC: ..... ETSI 300 386  
Emissions: ..... CFR47 (FCC) Part 15 Class A  
Immunity: ..... EN 61000-4-2, 4-3, 4-4, 4-5, 4-6  
NEBS/Telcordia: ..... GR-1089-CORE - Class A2  
GR-63-CORE  
GR-3108-CORE

## RELATED COMPONENTS

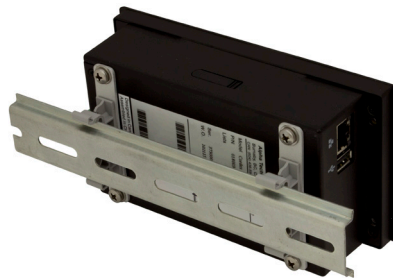
Input Lug Kit: 8700870-001  
Output Alarm Cable: 8700649-001  
Standalone CXC HP Controller: 0180036-002  
CXC HP Controller Din Rail Mount Kit: 0370190-001  
CAN Cable RJ12 to Offset RJ12: 877-176-47



LPS36 Compact Shelf



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



Cordex CXC HP Controller  
Din Rail mount kit



Optional Fan Tray

## Alpha Technologies Ltd.

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