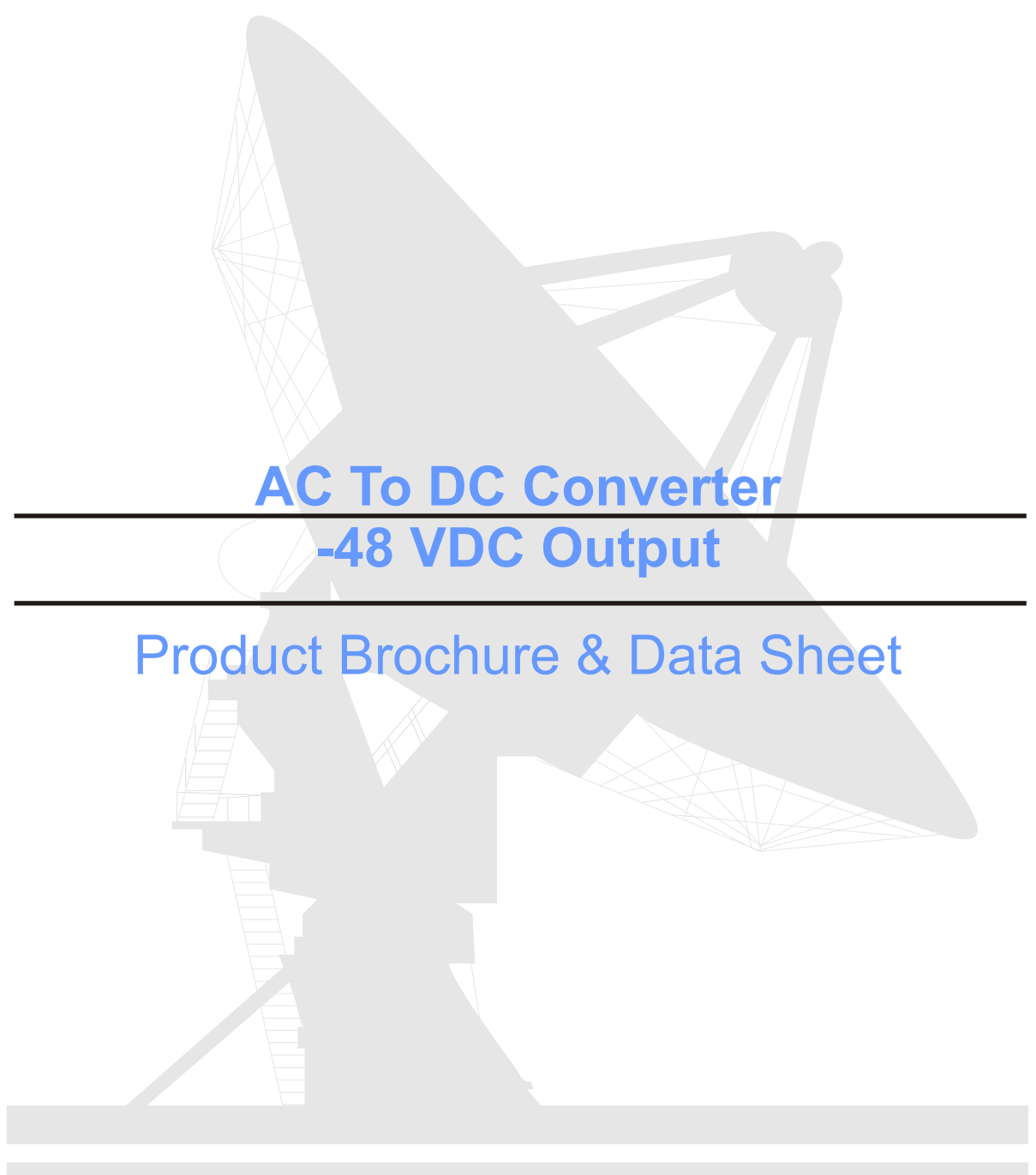


# COMARRA

TELECOM TRANSMISSION SOLUTION



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## AC To DC Converter

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## -48 VDC Output

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Product Brochure & Data Sheet

**COMARRA**

**E-Mail: [info@comarra.co.uk](mailto:info@comarra.co.uk)**

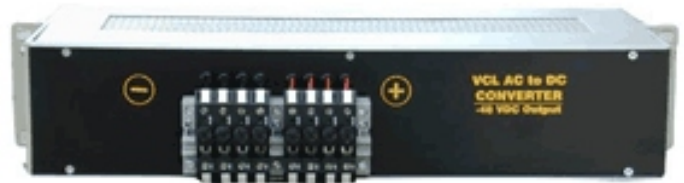
**Web Site: <http://www.comarra.co.uk>**

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# VCL AC to DC Converter -48 VDC Output

## Features

- High quality and cost effective.
- Small and compact.
- Autoranging voltage (85~132VAC, 170~264VAC, 47Hz - 63Hz)
- UL, recognized, TUV approved, CSA certified
- Built-in inrush current, overcurrent and overvoltage protection circuits.

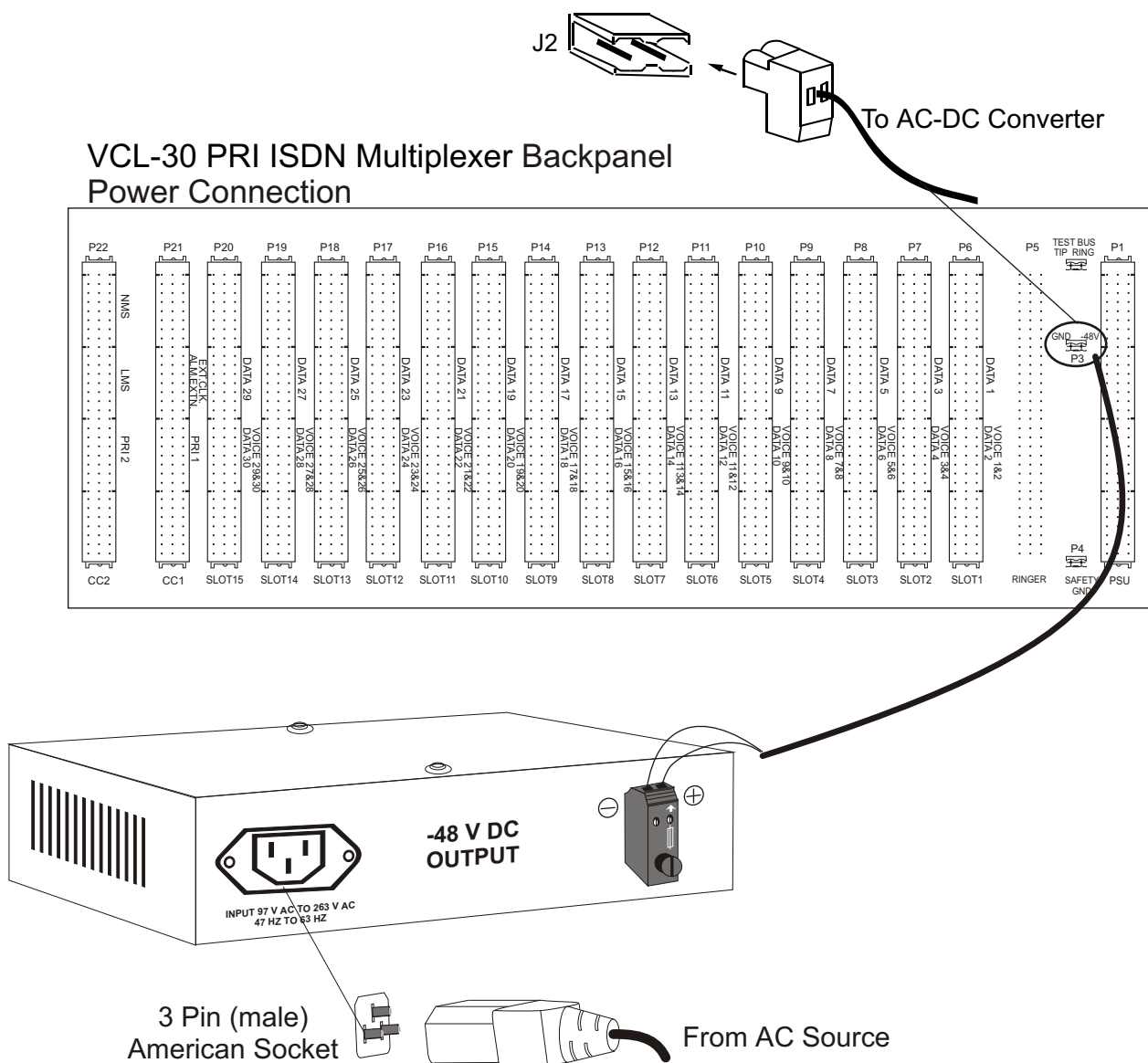


## Specifications

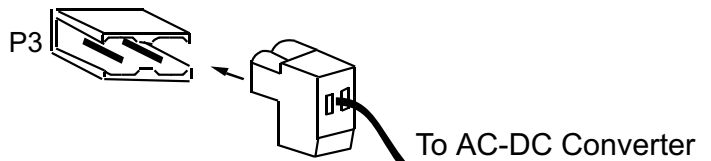
Voltage		(85~132VAC, 170~264VAC, 47Hz - 63Hz)
Frequency		47~63Hz
Efficiency		82%typ
Inrush Current		30A typ (ACIN 100/200, Io=100%) (at cold start)
Leakage Current		0.75mA max (60Hz, according to UL, CSA, VDE and DENTORI)
Voltage	[V]	48VDC
Current	[A]	3A (Cumulative )
Line Regulation	[mV]	192 max
Load Regulation	[mV]	240 max
Ripple	0~+50 C	150 Max
[mVp-p]	-10-0 C	200 max
Ripple Noise	0~+50 C	400 Max
[mVp-p]	-10-0 C	600 max
Temperature	[mV]	560 max
Coefficient Drift	[mV]	192 max
Start-Up time	[mS]	200 max (ACIN 100V, Io=100%)
Hold- Up time	[mS]	10 typ (ACIN 85V, Io=100%), 20 typ (ACIN 100V, Io=100%)
Output Voltage	[V]	Fixed
Overcurrent Protection		Works over 105% of rating (-H:peak) and recovers automatically
Overvoltage Protection		Works at 105% ~ 140% of rating

Input-Output	AC3,000V, 1minute cutoff current= 10mA, DC500V, 50MΩ min. (At room temperature)
Input-FG	AC2,000V, 1minute cutoff current= 10mA, DC500V, 50MΩ min. (At room temperature)
Output-FG	AC500V, 1minute cutoff current= 10mA, DC500V, 50MΩ min. (At room temperature)
Operating Temp. And Humid.	-10~+60 C, 20~90%RH (Non-condensing)
Strage Ttemp. And Humid.	-20~+75 C, 20~90%RH (Non-condensing)
Vibration	10~55Hz, 2G, 3min. Period, 60 min. each along X, Y and Z axis.
Impact	20G, 11mS, once each X, Y and Z axis.
Safety	Recognized UL 1950, approved En60950, certified CSA C22.2 No.234, compiles with DENTORI and IEC950
Conducted Noise	Compiles with FCC-B, Vfg2443/91 and VCCI 2

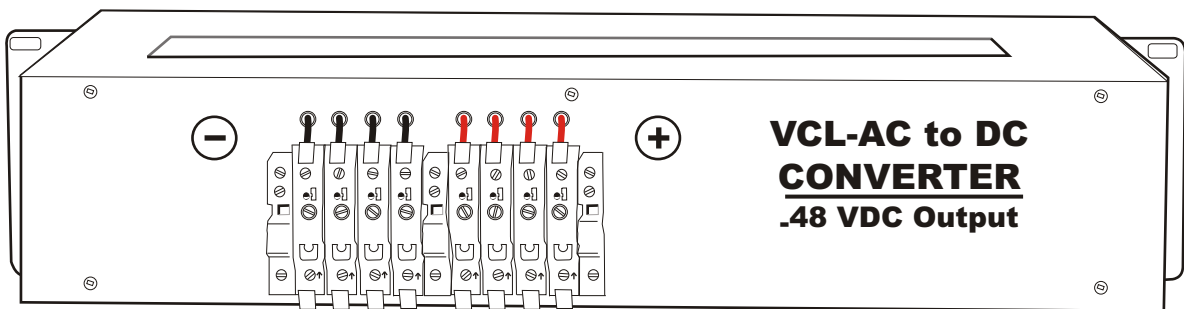
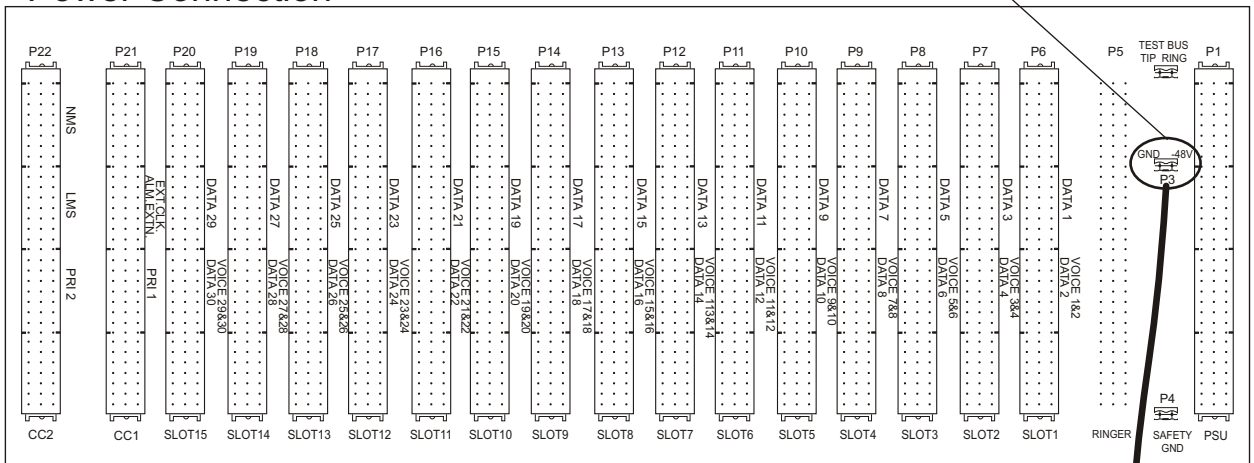
### Connection Detail of VCL-30 E1 Voice & Data Multiplexer with AC-DC Converter (Optional) - Part No. VCL-30-0148



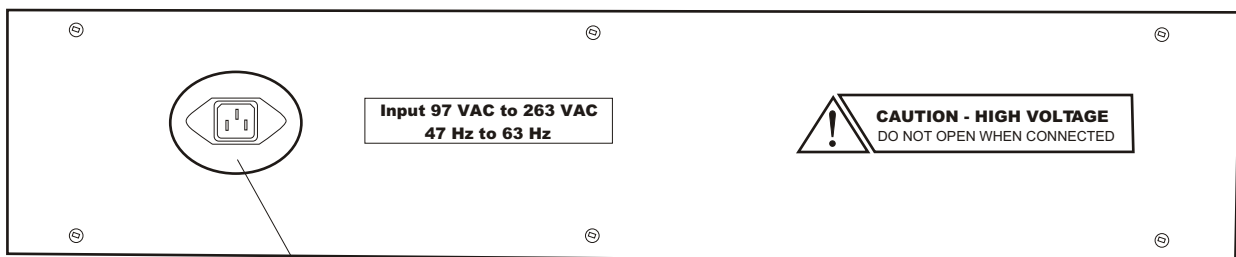
## Connection Detail of VCL-30 E1 Voice & Data Multiplexer with AC-DC Converter (Optional) - Part No. VCL-30-014819-RK



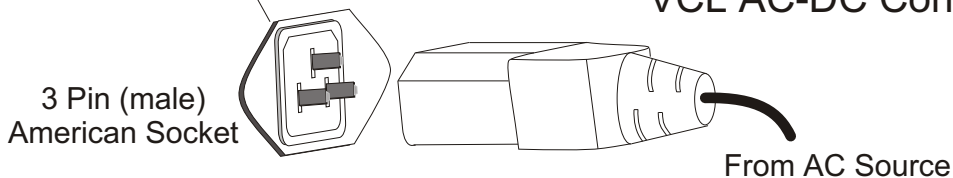
VCL-30 PRI ISDN Multiplexer Backpanel  
Power Connection



VCL AC-DC Converter Frontpanel



VCL AC-DC Converter Backpanel



Notes : \_\_\_\_\_

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Technical specification are subject to change without notice.  
Revision 06. March 12th, 2006



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**Website: <http://www.comarra.co.uk>**