

ORION TELECOM NETWORKS INC.

VCL AC to DC Converter

Features

- Harmonic attenuator, PFC (Complies with IEC61000-3-2)
- Universal input (AC85-264V)
- Rugged PCB type
- RoHS Compliant

Safety Agency Approvals

- Complies with DEN-AN
- UL1950, C-UL recognized, TUV approved

VCL AC to DC Converter



Front View

EMI Compliance

- FCC-B
- CISPR22-B
- EN55022-B
- VCCI-B

CE Markings

- Low Voltage Directive
- EMC Directive

MAX OUTPUT WATTAGE[W]	52.8
DC OUTPUT	48V 1.1A

Specifications

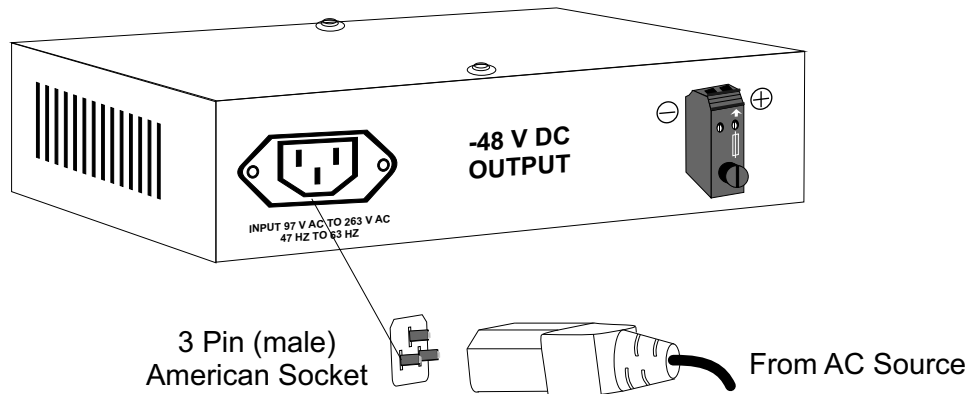
Input Voltage	[V]	AC 85-264 or DC 120-370
Current	[A]	ACIN 100V 0.7typ ACIN 200V 0.35typ
Frequency	[Hz]	50/60 (47-63) or DC
Efficiency	[%]	ACIN 100V 83typ ACIN 200V 85
Inrush Current	[A]	ACIN 100V 15typ (Io=100%) (At cold start) (Ta=25°C) ACIN 200V 30typ (Io=100%) (At cold start) (Ta=25°C)
Leakage Current	[mA]	0.75max (60Hz, According to IEC60950 and DEN-AN)
Output Voltage	[V]	48V DC
Current	[A]	1.1A (Cumulative)
Line Regulation	[mV]	192 max
Load Regulation	[mV]	300 max
Ripple	0~+50 °C	150 max
[mVp-p]	-10-0 °C	200 max
Ripple Noise	0~+50 °C	350 max
[mVp-p]	-10-0 °C	400 max
Temperature	0~+50 °C	480 max
Regulation[mV]	-10-50 °C	600 max
Coefficient Drift	[mV]	192 max
Start-Up Time	[mS]	500 max (ACIN 100V, Io=100%)
Hold- Up Time	[mS]	20typ (Io=100%)
Output Voltage Adjustment Range	[V]	48 ± 10%
Overcurrent Protection		Works over 105% of rating (-H:peak) and recovers automatically
Overvoltage Protection		Works at 115 ~ 140% of rating

Input- Output -RC Isolation	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)
Input-FG Isolation	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)
Output -RC-FG Isolation	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)
Output -RC Isolation	AC100V 1minute, Cutoff current = 100mA, DC100V 10M Ω min (At Room Temperature)
Operating Temp., Humid. and Altitude	-10~+70 ⁰ C, 20~90%RH (Non-condensing)
StorageTemp., Humid. and Altitude	-20~+75 ⁰ C, 20~90% RH (Non-condensing)
Vibration	10 to 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each Along X, Y and Z axis
Impact	196.1m/s ² (20G), 11ms, once each X, Y and Z axis
Safety	UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input)
Conducted Noise	Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B

Ordering Information

AC to DC Converter			
S No.	Part #	Product Description	Qty
1.	Part No. VCL-30-0148	AC to DC Converter	1

AC-DC Converter Shelf Desktop Version



Technical specifications are subject to changes without notice.
Revision 5 - June 01, 2008

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