

# VALIANT COMMUNICATIONS LIMITED



## AC To DC Converter -48 VDC Output

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### Product Brochure & Data Sheet

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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.

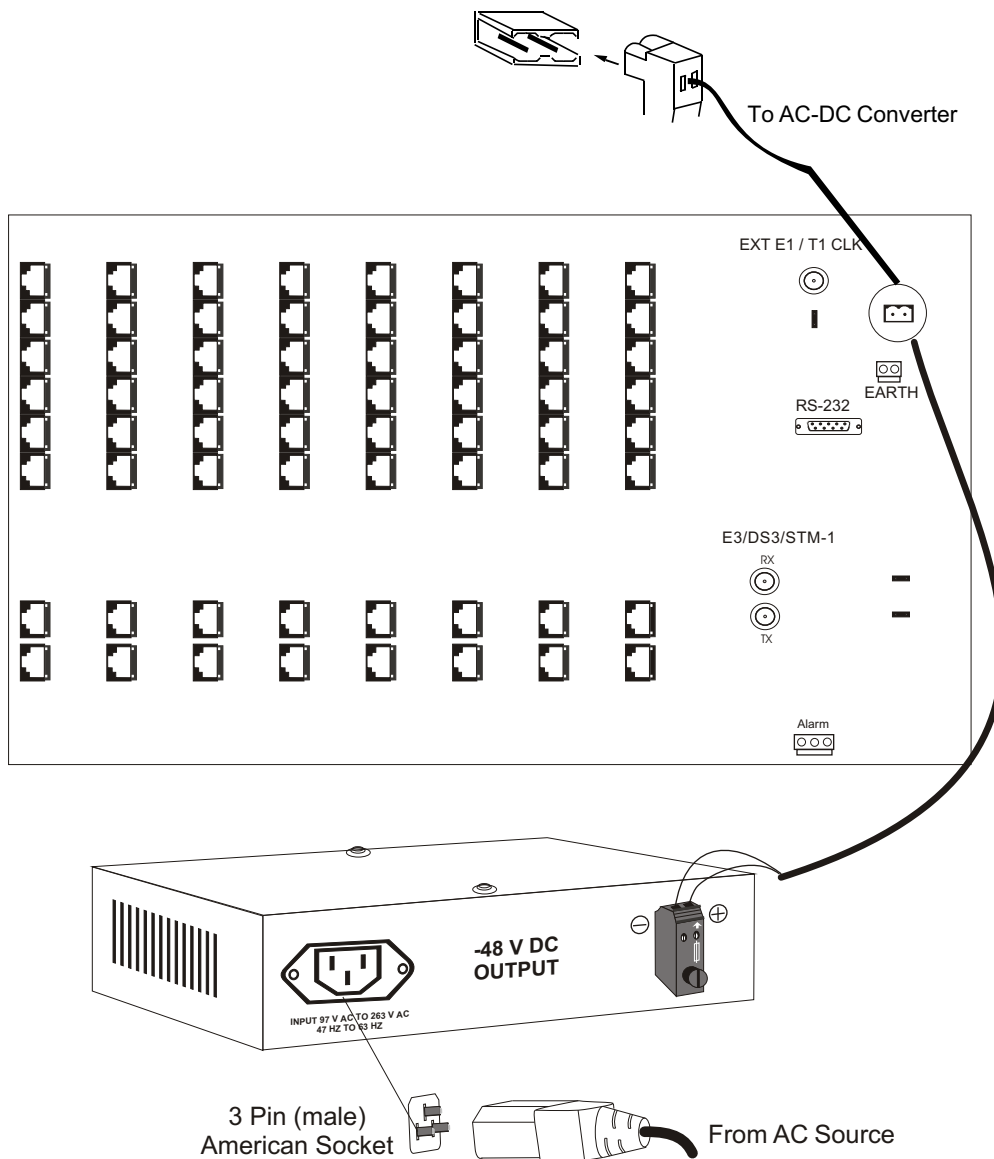


## Specifications

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 CSAC22.2 No.234, compiles with DENTORI and IEC950
Conducted Noise	Compiles with FCC-B, Vfg2443/91 and VCCI 2

### Connection Detail of VCL-MegaConnect 64 Port DACS with AC-DC Converter (Optional) - Part No. VCL-30-0148



## Connection Detail of VCL-MegaConnect 64 Port DACS with AC-DC Converter (Optional) - Part No. VCL-30-014819-RK

