

Concord Power Take-Out

Streamer Power Take-Out Device

Features

- Converts streamer high voltage DC to standard output voltages for auxiliary devices
- Wide input voltage range, automatic recovery, over-voltage protection, and 500 Vrms isolation
- Device is light-weight for towed streamer operations



Power Take-Out Device

GENERAL SPECIFICATIONS

Operating Input Voltage	180 to 375	Vdc
Input Surge Withstand	400	Vdc (<100ms)
Output Voltage	28 ± 0.3	Vdc
Output Over-voltage Protection Set-point	32.7 ± 1.2	Vdc (Note 1)
Output Power	150	Watts (Note 2)
Efficiency	85.5/86.5	% min/typ (Note 3)
Under-voltage turn-off	147.4/152.8	Vdc min/typ
Under-voltage turn-on	174.6/178.2	Vdc typ/max
Standby (no load) Dissipation	4.6/6.9	Watts typ/max
Line Regulation	±0.02/±0.2	% typ/max (Note 4)
Load Regulation	±0.06/±0.3	% typ/max (Note 5)
Ripple and Noise, p-p	180/225	mV typ/max (20 MHz BW)
Current Limit	5.5 to 7	Amps (Vout 95%)
Isolation Resistance (in to out)	10	mega ohms
Insulation Resistance (at 500 VDC):	1000	mega ohms (Notes 6 and 7)
Dielectric Strength and Isolation Voltage	500	Vrms @ 60 Hz (Notes 6 and 7)
Low Input Voltage or Temperature or Out of Range		Automatic Recovery
Dimensions:		
Overall Length:	11.7	inches (29.7 cm)
Streamer Insertion Length:	9.950	inches (0.253 meter)
Body Diameter:	3.625	inches (9.21 cm)
Overall Diameter with Take-Out connector:	5.275	inches (13.40 cm)
Weight in air:	12	lbs (5.44 kg)
Seal Design Pressure Rating:	1500	PSIG (1028 meters seawater)
Case Material:	6AL4V Titanium	
Operating and Storage Temperature Range:	-20° to 70°	Celsius

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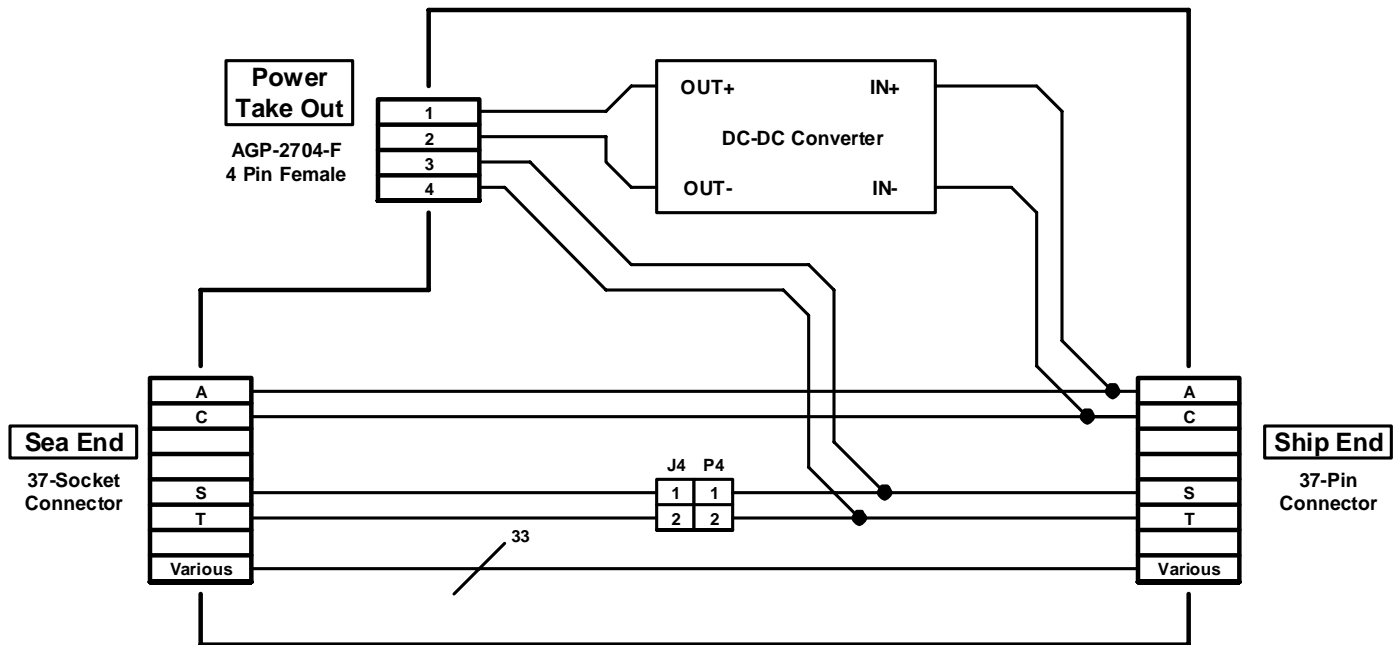


Figure 1: Power Take-Out Wiring Diagram

Notes:

1. Cycle input voltage off for 1 minute to restart after output over voltage condition.
2. At maximum operating temperature.
3. At 300 Vdc input, 25°C, 75% full load.
4. Low line to high line; full load.
5. No load to full load, 300 Vdc input.
6. Case is electrically isolated from any circuit.
7. Between each conductor, case and all other conductors. Take care to short circuit both input terminals and both output terminals when making Hi-Pot Tests to avoid damage.