

PCRH DATA SHEET

ISOLATE. GROUND. PROTECT.

The PCRH is a solid-state device designed to simultaneously provide DC decoupling and AC continuity/grounding when used with cathodically protected structures, such as pipelines, tanks, grounding systems, and cable casings. By decoupling the cathodic protection system from grounding systems and other structures, the CP requirements can be minimized, while maintaining an effective ground or bond rated for AC faults and lightning current. All DEI devices are maintenance-free, with no requirements for periodic service or testing. Differentiating it from the PCR, the PCRH line of products features explosion-proof construction certified for Class I, Division 1 & 2 hazardous locations.

Features:

- Fail-safe design assures bonding/grounding
- Certified for hazardous locations, electrical grounding
- Higher blocking voltage than polarization cells
- Inherent over-voltage protection provided to structure
- No maintenance or testing required

Typical Applications:

- Insulated Joint Protection
- AC Voltage Mitigation
- Decoupling Electric Equipment Grounding Systems
- Decoupling From Utility Grounding Systems

Why Fault Current Is Important:

Fault current exposure for the product relates to the ampacity, proximity and mode of current transfer from a faulting source (power transmission line, motor circuit, induction from overhead lines, etc.). Select a product rating that has reasonable margin above the site conditions. Contact DEI for any assistance with selection of appropriate ratings.

AC Fault Current Ratings (Amps AC-RMS Symmetrical)			
PCRH Model	Rating at 60Hz	30 Cycles 50Hz	
PCRH-3.7KA-BCD	3,700	3,500	
PCRH-5KA-BCD	5,000	5,000	
PCRH-10KA-BCD	10,000	9,000	
PCRH-15KA-BCD	15,000	14,000	

Note: 60 Hz models shown. For other models and options available, please visit www.dairyland.com

Other Ratings and Certifications:

Threshold Voltage

-3/+1V (standard) -2/+2V (optional)

AC Steady-State Current (amperes - rms) 50/60Hz 45A

Lightning Surge Current 100kA crest (8 x 20 µs waveform)

Environmental rating:

NEMA 4 (Standard)

Hazardous Location Certifications:

Rating	Certification Agency
Class I, Division 1 & 2 Groups B, C, D Temp Code T5	UL, C-UL

Certification Agencies:

Underwriter's Laboratories (UL, C-UL)

For model numbers, options and accessories, see full technical literature at www.dairyland.com

