



The SSD 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, and grounding systems. Using proven, solid-state construction, but with new production and packaging techniques, the SSD line lowers costs while offering a certified, fail-safe solution.

Features:

- Compact, lightweight package
- 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
- Submersible design

Typical Applications:

- Gradient Control Mat Decoupling
- Insulated Joint Protection
- AC Voltage Mitigation
- Decoupling Electric Equipment 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)	
SSD Model	Rating at 30 Cycles 50/60Hz
SSD-2/2-1.2-75-R	1,200
SSD-2/2-2.0-100-R	2,000
SSD-2/2-3.7-100-R	3,700
SSD-2/2-5.0-100-R	5,000
Note: Standard SSD models shown. For other options available, please visit www.dairyland.com	

Other Ratings and Certifications:

Threshold Voltage (absolute)

-2/+2V (standard)

-3/+1V (optional)

Lightning Surge Current

1.2kA Models: 75kA crest (4 x 10 μs waveform)

All Other Models :100kA crest (4 x 10 μs waveform)

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

45A (Standard)

Environmental rating:

IP68 - submersible (to 2m depth)

Hazardous Location Certifications:

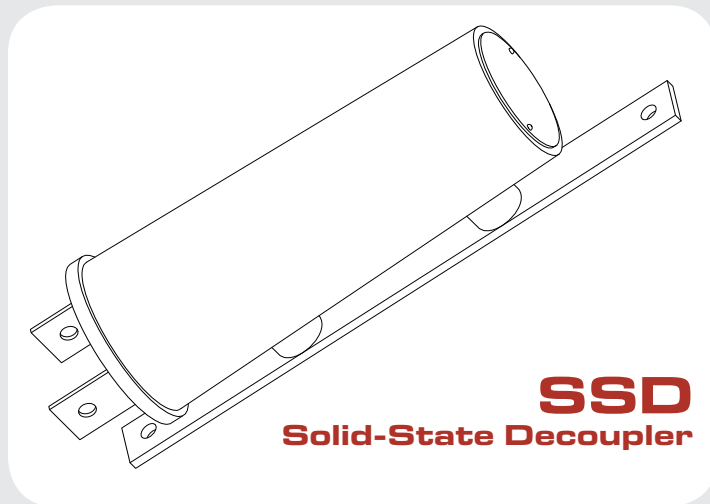
Rating	Certification Agency
Class I, Division 2, Groups A, B, C, D Temp Code T5	UL, C-UL
Zone 2 - ATEX Directive, Groups II Temp Code T5	Demko/UL

Certification Agencies:

Underwriter's Laboratories (UL, C-UL)

Demko, CE Mark

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



SSD
Solid-State Decoupler