

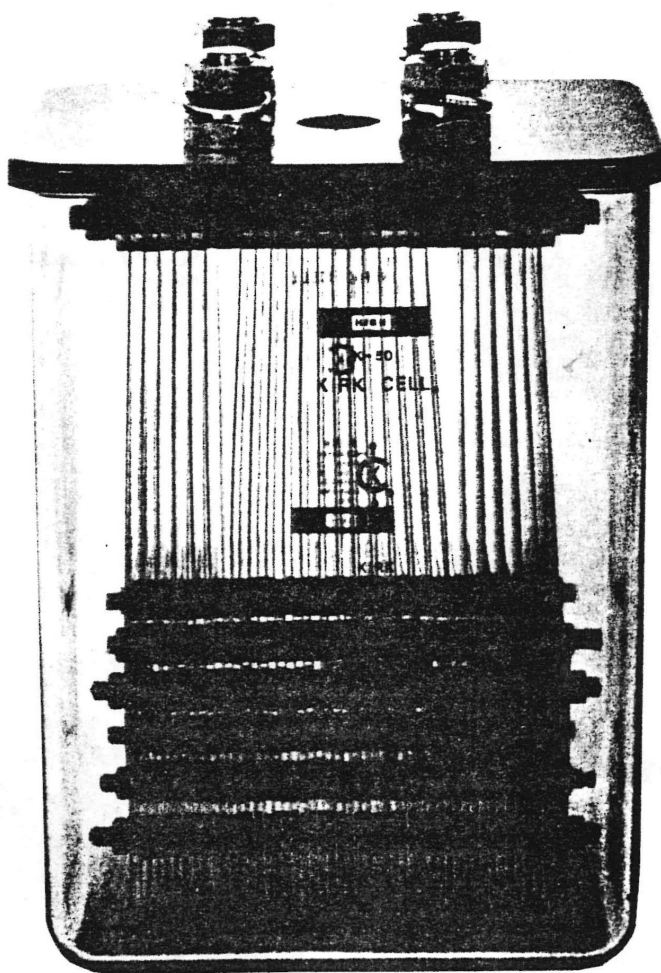


[www.kirkcell.com](http://www.kirkcell.com)



The Kirk Cell is a passive device that is essentially an electrochemical safety switch. The magnitude and direction of the current flow through the Kirk Cell will depend upon the EMF applied across the cell terminals.

As the applied EMF across the cell terminals increases, current flow through the cell will increase in general agreement with the data published on the back of this brochure. Actual current flow will vary with ambient conditions; including but not limited to: temperature, solution concentration and age.



K-50 Kirk Cell®

# K-50 KIRK CELL PERFORMANCE TABLE

Delta E Across Cell Terminals (Volts)	Resultant Current Flow	Apparent Internal Impedance (Ohms)
DIRECT CURRENT DATA		
0.15	100ua	1500
0.38	1ma	380
0.42	2ma	210
0.45	3ma	150
0.46	4ma	115
0.48	5ma	96
0.50	6ma	83
0.52	7ma	74
0.53	8ma	66
0.55	9ma	61
0.59	10ma	59
0.69	15ma	46
0.86	20ma	43
0.925	25ma	37
1.00	30ma	33
1.16	40ma	29
1.20*	50ma	24
1.30	100ma	13
1.72	500ma	3.4
1.76	1A	1.8
1.82	5A	0.36
1.85	10A	0.19
2.15	100A	0.022
2.65	500A	0.053
3.15	1KA	0.0032
ALTERNATING CURRENT DATA		
0.01	500ma	0.02
0.02	1A	0.02
0.04	5A	0.01
0.20	10A	0.02
0.58	50A	0.012
0.62	100A	0.0062
1.30	500A	0.0026
10.6	14KA	0.00076
12.5	38.5KA	0.00032
14.0	44.0KA	0.00032
15.0	52.5KA	0.00029
17.0	58.0KA	0.00029
19.9	64.0KA	0.00031

The Kirk Cell must be vented to atmosphere but shielded from direct sunlight or rainfall.

The 50 Series Enclosures will protect a K-50 Kirk Cell from direct contact with sunlight or rainwater. The 50-2/2 Dual Enclosure will provide for the installation of two K-50 or K-25 Kirk Cells. The galvanized or polyurethane/epoxy finish case will withstand spillage of the caustic electrolyte and or oil seal. Add code letter P after enclosure model number and specify color of finish on Purchase Order for painted finish. Expect several weeks delay in shipment for a painted finish as this is not a stock item.

Lead wire entrance and exit on each side of enclosure is in line with the cell terminals. One inch conduit knockouts are provided with 50-1 and 50-2 Enclosures. One and one-half inch conduit hubs are provided with the 50-3 Enclosure. 50-4 Enclosures have no conduit openings. Conduit runs are provided in the concrete pad by the installer. Write for installation drawing before pouring pad.

Easy access to the interior is by removal of two or more sheet metal screws or padlocks, depending upon the enclosure. Insect proof vent and drain holes or fittings are provided with each enclosure.

	Height		Width		Depth		Mounting Centers	Enclosure Rating
	Basic	Overall	Bottom	Top	Bottom	Top		
K-50	15 1/8"	16 3/4"	11 1/8"	12 1/16"	9 7/16"	10 1/16"	X	X
50-1	20"	25 1/2"	13 1/2"	15"	11"	13"	22 1/2"	NEMA 3R-CV
50-2	20"	25 1/2"	13 1/2"	15"	11"	13"	22 1/2"	NEMA 3R-CV
50-3	19 7/8"	24"	13 7/8"	14"	11 1/2"	11 1/2"	22 1/2"	NEMA 3S
50-4*	20"	Same	26 1/4"	Same	16 1/4"	Same	PAD	NEMA 3R-CV
50-5P	36"	Same	36"	Same	24"	Same	Specified	NEMA 3S
50-2/2	19 1/2"	19 1/2"	30"	31 1/2"	11"	13"	(3) 1/4" 0 Top/Bottom	NEMA 3R-CV

B-50 Adapter Bracket is available to bolt an enclosure to the sloping leg of a metal transmission tower leg and maintain the cell in a level position. Specify tower leg compound angle (available bolt hole diameters and mounting centers, where they exist) on your Purchase Order.

We will build special enclosures or other items to customer specifications. Write or call the factory for quotations on price and delivery. If you require a specialty item, not directly related to our product line, we may be interested in producing it.