

# Low Voltage Surge Arresters – Brochure

## Overview

AK Power solutions has been a major supplier of low voltage surge arresters in Australia over the past 10 years.

## Construction

Designed and tested in Australia

- Polymer housed fully encapsulated varistor

## Application

Low Voltage Outdoor Metal Oxide Arresters

- 10kA 500 volt distribution class
- AS 1307.2 1996 and IEC 99-4

## Features

- Withstand capacity 65kA 4/10 and 150/2000 micro seconds
- Failure mode tested to 40kA rms
- Highly reliable and effective
- Operates with safety to the public
- Connections can be tailored to suit individual needs



## Description of Operation

During steady state conditions, line-to-ground voltage is applied continuously across the arrester terminals. When surges occur, the arrester immediately limits the over-voltage to the required protective level by conducting the surge current to ground. Upon passage of the surge, the arrester returns to its initial state, conducting minimal leakage current.

The protective characteristics of the arrester provide excellent over-voltage protection for distribution transformers and equipment connected to the low voltage distribution system.

## Technical Specifications

Voltage	Continuous Operating Voltage	Discharge Current	Maximum Discharge Voltage				
			1 $\mu$ s Front	2.5kA	5kA	10kA	20kA
V rms	V rms	kA	V	V	V	V	V
510	425	10	2040	1720	1835	1940	2200