# 871 Series Ultra-High Amperage SMD Fuses

## Problem/Solution

In today's data center server market, with the rise of AI computing and data/crypto mining functions, a huge amount of power has become a requirement, coupled with the need to optimize the density of the racks. With this increased power requirement at the same system voltages and at very space-constrained products, there is a need for ever smaller and even higher current-rated overcurrent protection and fuse solutions.

The existing 881 Series Fuses have been the solution of choice for most customers for such applications, providing them with a single fuse solution for the requirement. However, with the heightened power requirement, even the 881 Series ratings are no longer sufficient, rendering them the need to do parallel fusing using the 881 Series parts. The 871 Series Fuses supplement the 881 Series, offering higher current ratings in a single fuse solution for the requirement, avoiding using a parallel fusing solution.

## Technical resources *(Click on below icons to learn more)*

Series Page | Datasheet | Tech Info | Design Guide | Video

## Benefits


- Single fuse solution for ultra-high current applications and where space is a constraint. Parallel fusing or use of over-spec'd and large-sized industrial type fuses can be eliminated or reduced
- High-wattage equipment can be designed with less board space reserved for protection components
- Relatively high interrupting rating will suit a wide variety of applications, including those with fault currents derived from mains AC supply

## Features

- Available in 150 A and 200 A ratings in a small size (13.3mm x 12 mm x 5.7 mm) surface-mountable platform.
- Supplements the 881 Series fuse offering
- Carries the same high interrupting rating of up to 1500 A @ 75 VDC even on this extended/higher rating

## Markets/Applications

- Blade servers, routers
- High-power battery systems (BMS)
- Energy storage systems
- Inverters
- Battery/BESS/BMS
- Power supplies/DC-DC

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