



Product Overview

The CK100 is designed to prevent nuisance tripping of the main circuit breaker on electrically shared sites by start-up staggering and load rotation. Additionally the system has a generator input, enabling source selection.

Nuisance tripping prevention of the mains supply circuit breaker is done by managing the power consumption of the owner and up to three shares.

During operation the current measurement is done per phase for each party connected to the system. As soon as any one of the phases exceeds a programmed limit, the system will activate rotation mode to limit the current consumption to a value below that of the circuit breaker.

Start-up staggering

After a power failure, there is normally a high starting current. If the supply is insufficient to cater for such a current demand spike, the circuit breaker will trip. The CK100 manages this problem by systematically connecting the power to the parties connected to the system.

Load rotation

The CK100 will continue to monitor the current consumption during operation. Should there be a sudden current spike due to starting of some equipment on one or more of the connected parties, the system will rotate the connected parties to manage this current demand.

The graphs above illustrate this process.

Physical Specifications

Dimensions (H x W x D)	600mm x 400mm x 220mm
Colour	White/Green
Weight	35kg
Enclosure material	3CR12
IP rating	IP65

Functional specifications

Max user current	63A
Max input current	80A
Voltage rating	184V-306V (L to N) / 320V to 530V (L to L)
Max generator rating	60 kVA
Max number of providers	4
Min inrush immunity period	1000ms

Typical Connection Diagram

