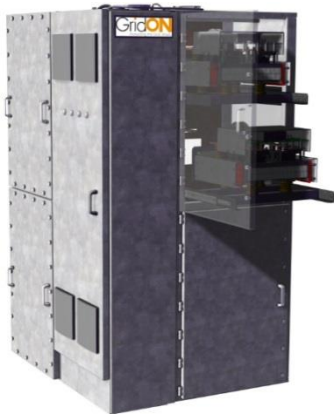


Fault-limiting Interrupter with immediate recovery for Cost-effective connection of Distributed Generators at 400V

GridON - a world leader in fault current limiting technology - is offering a novel 400V electronic Fault Current Limiting Interrupter (FCLi) for connection of 1-5MW generator-sets to the distribution grid. The FCLi interrupts fault currents instantly (well before the first current peak) and recovers immediately – allowing rapid connection of the generator-set back to the grid by a remote command.

The ever increasing penetration of Distributed Generation (DG) leads to rising network fault levels which exceed switchgear ratings, hence delays approvals of DG connections. While some generation sources contribute little fault current (e.g. solar PV), synchronous ones (such as CHP) contribute significant fault current. Consequently, requests to connect new generation sources are often rejected by grid operators due to lack of fault current headroom in their networks. To enable faster approval and connection of industrial generators and IPPs, the fault current contribution from such DG sources need to be reduced to near zero. In some cases, connections are made possible through conventional resource-intensive and often disruptive network reinforcement, with substantial cost and delays to the IPPs. This leaves available generation capacity underutilized, thus inhibiting improvements in network capacity and flexibility and energy source diversification.



Following years of field proven operation of its fault current limiters, GridON is introducing a novel product family for low-to-medium voltage networks, based on standard power-electronics devices. The Fault Current Limiting Interrupter (FCLi) is a series-connected solid-state device which instantaneously interrupts the AC current upon detection of short circuit conditions. The FCLi limits and interrupts excessive fault currents from the generation source to the grid - before the first current peak. It also limits short circuit currents from the grid to the generator. Once the short-circuit condition is cleared, the FCLi is immediately ready to resume normal conduction.

By controlling excessive fault currents, the FCLi enables fast and cost-effective connection of industrial generators and IPPs, and sale of excess generation capacity. Return on investment in an FCLi is expected within one year.

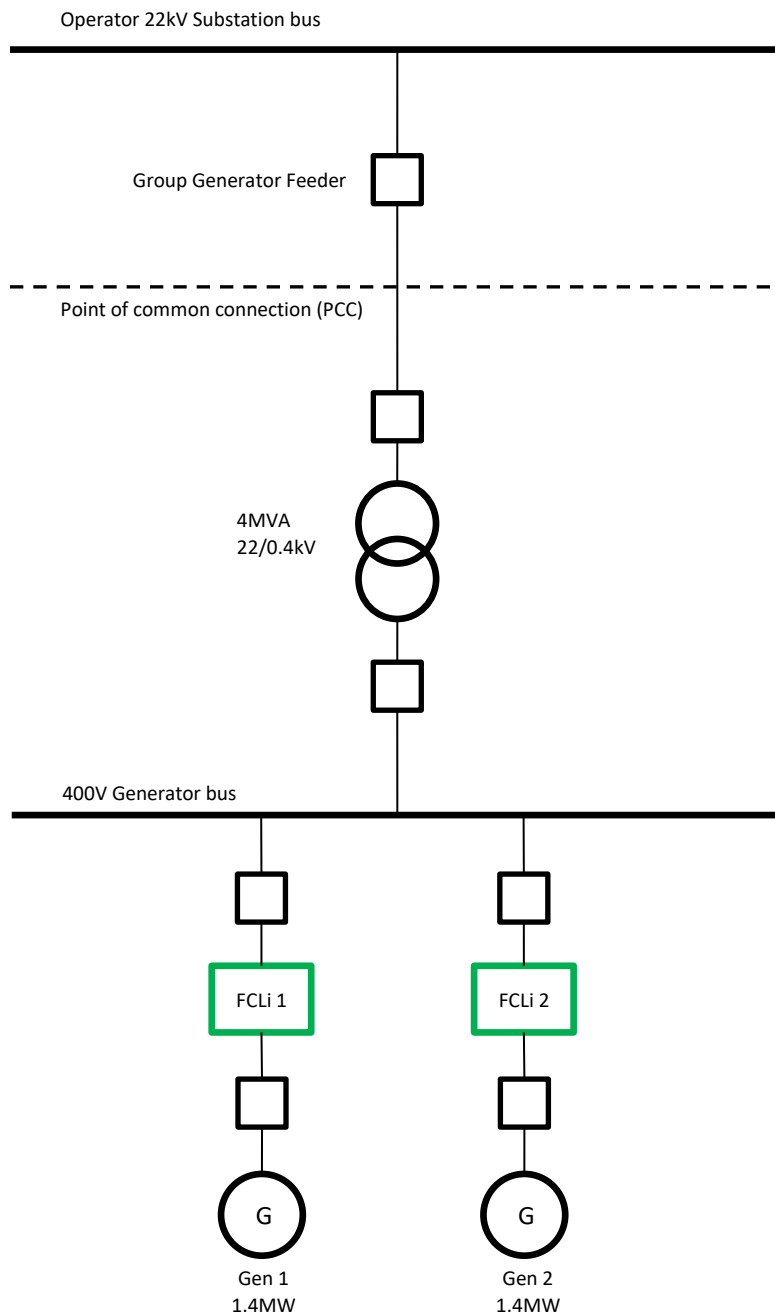
Western Power Distribution and UK Power Networks have recently contracted GridON to provide 5MW FCLi and 2.4MW FCLi, respectively, for connecting their customers' generators at 11kV.

GridON is offering also a compact 1.4MW FCLi to connect 1-5MW industrial generator-sets operating at 400V. The size of this cost-effective unit is 1.2 x 1.6 x 2.2 meter (WxDxH).

Example - 2.8MW generator-set connection

The 1.4MW FCLi enables connection of a 400V generator with nominal current 2500A. Connection of multiple generators is enabled by using an FCLi per generator. The following figure shows a connection example of two 1.4MW generators to the 22kV distribution grid. Connection of 5MW is enabled by using 4 such units etc.

Each FCLi is equipped with a smart fault detection system. The current through the FCLi is continuously monitored, and once fault current conditions are detected – the current is immediately interrupted, and the network equipment can safely interrupt the source of the fault downstream. The FCLi is then immediately ready to reconnect the generator back into service.



About GridON Ltd

GridON is a leading provider of Fault Current Limiting solutions for increased capacity in electricity networks and for cost-effective connection of distributed generation and renewable energy sources. Short circuit currents in electricity grids are rising with new generation sources added to meshed networks, often exceeding existing switchgear ratings. GridON provides fault mitigation solutions for network operators, independent power producers, and industrial customers.

GridON is offering scalable solutions from medium to very high transmission voltage ratings.

GridON's commercially available saturated-core Fault Current Limiters (FCL) have been operating flawlessly in live networks for more than 5 years, proving the reliability and maturity of the product, and are being offered in partnership with Wilson Transformer Company - Australia's leading manufacturer of high-quality transformers.

GridON's solid-state Fault Current Limiting Interrupters (FCLi) are offered for low-to-medium voltage networks. Designed with compact footprint and low price tag, the FCLi is a cost-effective solution for connecting distributed generation sources and for increasing power capacity in industrial plants.

GridON's FCL and FCLi improve grid resilience and reliability and significantly lower capital expenditures and operating costs, while eliminating network upgrades and early retirement of fit-for use equipment.

For further information, please visit www.GridON.com or email sales@GridON.com or call +972.3.711.1183