

Cost-effective connection of independent generators to enable sale of excess generation capacity to the grid



GridON, a world leader in fault current limiting technology, is offering a novel electronic Fault Current Limiting Interrupter which enables cost-effective connection of independent generation and renewable energy sources, and sale of excess generation capacity to the grid.

The fast growing demand for electric power is driving the need for expedited connection of additional generation sources. Grid operators are not authorizing connections of independent generators without proven means for protecting the distribution network from excessive fault currents. Independent power producers are required to make significant and timely investments which postpone their connection and defer the potential income from sale of electricity to the grid.

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

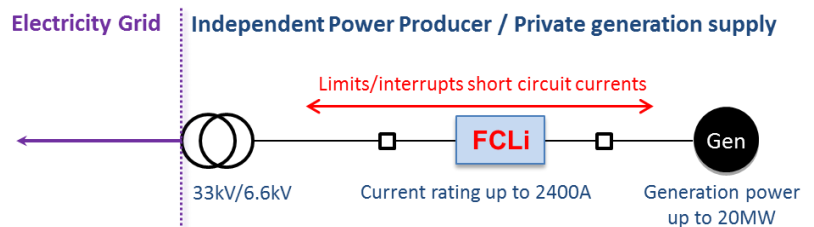


By controlling excessive fault currents, the FCLi enables fast and cost-effective connection of independent power producers and renewable energy sources. FCLi simplifies the connection of industrial plants and expedites sale of excess power generated on-site to the grid.

Return on investment in an FCLi is expected within one year, assuming 10% or more of the generation capacity is sold to the utility operator during peak demand.

Medium Voltage FCLi for generation connection at 6.6kV

A medium-voltage FCLi example - enables connection of one or more independent generators at 6.6kV with nominal current rating of up to 2400A



Low Voltage FCLi for generation connection up to 1kV

A low-voltage FCLi example - enables connection of one or more independent generators at 415V with nominal current rating of up to 2000A

