

STATIC SYNCHRONOUS COMPENSATOR



STATCOMs are inverter based solutions used for compensation of reactive power harmonic currents, unbalance currents and neutral currents caused by reactive and non-linear loads. STATCOMs are realized with current controlled PWM voltage source inverters connected to grid through interconnecting impedance. Inverters are constructed with advanced switching devices like IGBTs. When compared to conventional power quality solutions like switched capacitors and tuned filters, STATCOMs feature excellent dynamic performance under fluctuating load conditions, increased life, better efficiency, insensitiveness to grid frequency etc.

3phase 3-wire and 3phase 4-wire STATCOMs are manufactured for various ratings from 50kVA to 500kVA

SPECIFICATIONS

3 Phase 3-wire STATCOM

Rating (typical)	: 50, 150, 500 kVA, 415V 3 Phase, 3 Wire
Configuration	: 3 Phase, full bridge IGBT PWM controlled inverter
Switching frequency	: 10 kHz
Control	: Using DSP / FPGA based digital controller
Cooling	: Forced air cooling
Panel fabrication	: Suitable for indoor deployment
Protections	: Over current, short circuit, over voltage (AC/DC), Over temperature

3 Phase 4-wire STATCOM

Rating (typical)	: 50, 150, 500 kVA, 415V 3 Phase, 4 Wire
Configuration	: 3 Phase, 4 leg IGBT PWM controlled inverter
Switching frequency	: 10 kHz
Control	: Using DSP / FPGA based digital controller
Cooling	: Forced air cooling
Panel fabrication	: Suitable for indoor deployment
Protections	: Over current, short circuit, over voltage (AC/DC), Over temperature