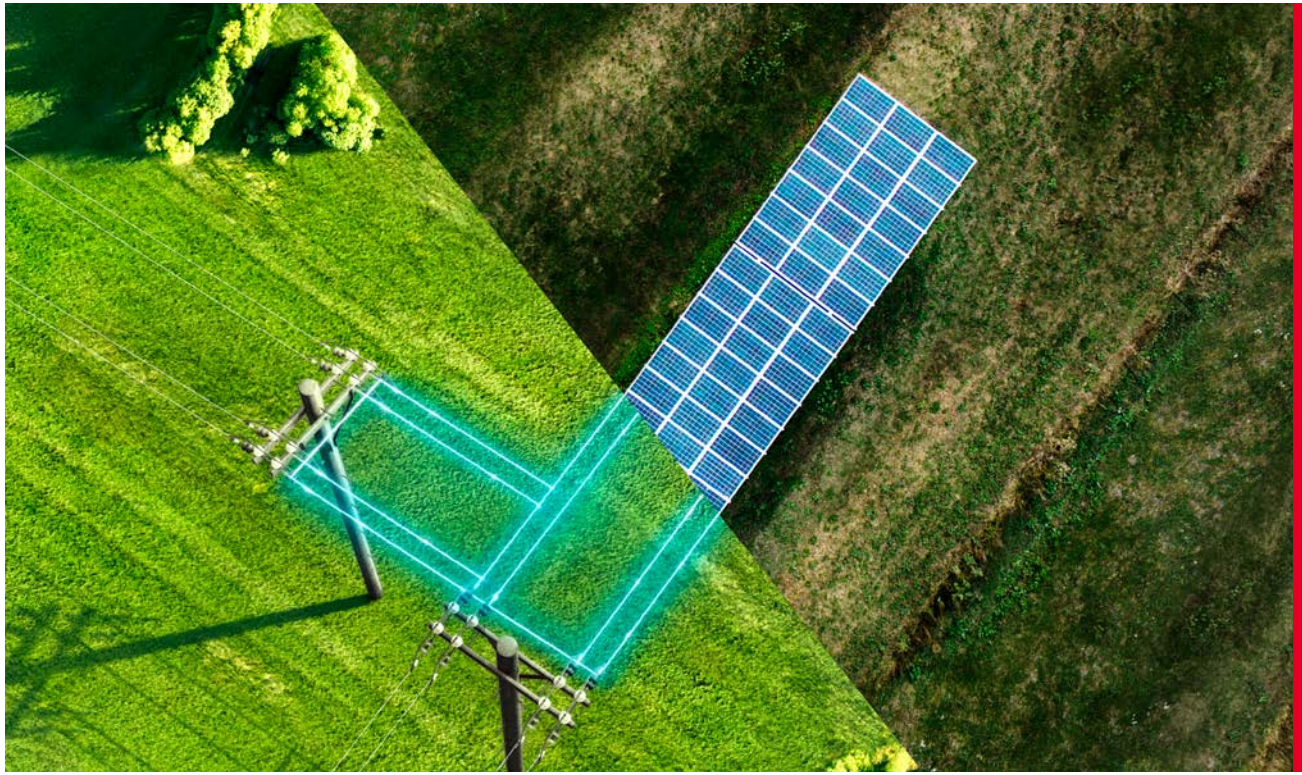
STATCOM for distributed power

HITACHI



The new STATCOM for distributed power is a power quality solution you can trust, backed by 120 years of expertise and over 800 power quality installations across the world.

Power you can trust. We tick all the boxes.

A STATCOM designed for renewable energy, industrial, utilities and transportation applications. Hitachi Power Grids technology is the easy choice to ensure reliability, stability and efficiency for your operations. Now and in the future.

KEY FEATURES

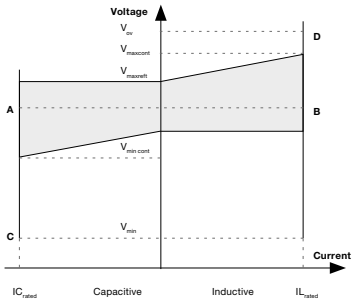
- Modular for cost effective maintenance
- Indoor and outdoor applications available
- Power options from 3MVar to 20MVar
- Integrated solution offering voltage support, reactive power compensation, grid fault ride through and harmonic filtering in one

MAIN ADVANTAGES

- Improve efficiency
- Increase revenue realization
- Improve power quality and reliability
- Meets grid code compliance
- Decrease OPEX costs

STATCOM for distributed power
Technical Information

Technical information and operational requirements

STATCOM for distributed power		
Power range	Single unit: 3-10MVAr, (Two units can be operated in parallel, rated power up to 20MVAr)	
Voltage	10/11kV	33/34.5/35kV (with step down transformer)
VI Curve		Vmaxcont=1.2 P.U. Vmaxref=1.1 P.U. Vrefmin=0.9 P.U. Vmincont=0.8 P.U.
Connection	3 phase-3 wire	
Control & Protection	Complete digital control platform with ARM + DSP + FPGA	
Cooling method	Forced air cooling	
Processor	DSP+CPLD	
Communication	RS485/Modbus, support IEC61850 protocol	
Response time	≤5ms	
Efficiency (include Aux. power consumption, exclude reactor/ transformer)	>99%	
Implementation Standard	GB/T 3859.1, DL/T1215-2013	
Over-load ability	1.1In for 1min	
Noise	Maximum noise of the equipment: <80dB (≤5MVar) /85dB (≤10MVar)	

Environmental	
Altitude	≤1500m (derating at 1500~3000m)
Ambient temperature	-5°C~+40°C; Derating at 40~50°C, for indoor installation
	-25°C~+50°C for outdoor installation
Humidity	<=95%, no condensation
Pollution level	No conductive dust allowed variant
Cable entry method	Bottom
IP degree	IP20 for indoor or IP 54 for outdoor
Cubicle Color	RAL7035
Storage	Indoor Temp: -25°C~+70°C Relative humidity: <=95% No condensation No corrosive gases

Auxiliary power (1)	
DC	220V (-20% ~+10%),
AC	Phase voltage: 220V (-20% ~ +15%),
	Line voltage: 3x380V (-20% ~ +15%);

Secondary signal from grid (2)	
PT	≥35VA, 100V/110V, grade 0.5 or better
CT	50VA, 5A or 1A, grade 0.5 or better

(1) DC power is for control and protection while AC power with phase voltage is for illumination, AC power with line voltage is for cooling fans.
(2) External PT and CT is required, which measuring the value of the control points, for the purpose of the STATCOM for distributed power.

STATCOM for distributed power
Product Layout

Scalable, modular and flexible.
There are both indoor and outdoor installations available for the STATCOM for distributed power.

INDOOR INSTALLATION

10/11kV Direct Connected or 33/35kV with step down transformer

- Available from 3MVar – 20MVar
- Voltage 10/11 kV or 33/35kV
- For specific sizes speak to your sales rep

OUTDOOR INSTALLATION

Container with forced air or air conditioner

- Available from 3MVar – 20MVar
- Voltage 10/11kV or 33/35kV
- For specific sizes speak to your sales rep

Contact us