SVG

Dynamic power factor correction



PERFORMANCE DATA

- **Operating voltage** 228V- 456V (up to 800V on request)
- **Rated frequency:** 50/60Hz auto selection (45Hz÷ 62Hz)
- **Inverter type:** Silicon Carbide Mosfet
- **Efficiency:** 99%
- **Switching frequency** 40kHz (average)
- **Response time:** <50us (full correction <15ms)
- **correction level:** >97%
- **Power supply** Three-phase, 3-wire or 4-wire (3-phase+neutral)
- **Rated neutral current** 3In (4-wire type only)

Static Var Generators are part of the new electronic power factor correction equipment capable of generating capacitive and inductive reactive energy. Particularly useful in presence of photovoltaic system
They are also characterised by a fast response to load variations and the ability to balance currents on the 3 phases

TECHNICAL DATA

Power factor correction	inductive and capacitive correction
Unbalance compensation	phase-by-phase compensation of unbalanced loads
Communication protocol	RS485 port, RJ45; MODBUS RTU protocol, TCP/IP
Protections	overvoltage, undervoltage, overtemperature
TA Report	150/5 ÷ 30.000/5 A
Degree of protection	IP20
Power losses	≤1%
Assembly	wall or cabinet
Operating temperature	-20 to 40°C (downgraded for temperature > 40°C).
Relative humidity	<95% without condensation formation
Storage temperature	-20 ÷ 70°C
Noise level	< 65 dB
Altitude	≤ 1,500m (from 1,500m to 4,000m, 1% downgrade per 100m)

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QUALITY AND TESTING

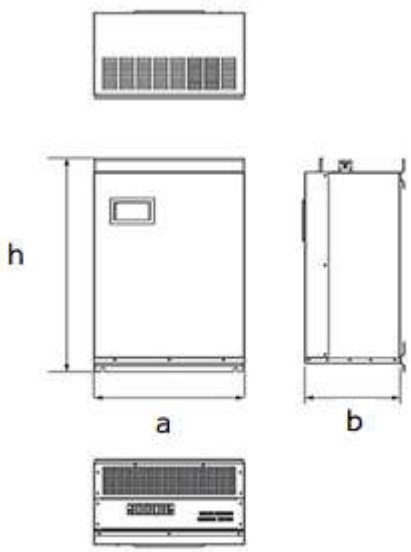
Regulations	EEE519, ER GS/4 and IEC 61000
Certifications	CE
Testing	100% of equipment undergoes visual inspection, insulation testing: phase-to-phase and phase-to-ground, power testing and ventilation circuit checks

STANDARD CONFIGURATION

Code	Reactive Power output up to (kvar)	Un (V)	Dimension a x b x h (mm)	Peso (kg)
775-304**	30	400	500 x 88 x 470	24
775-504**	50	400	500 x 88 x 470	24
775-1004**	100	400	500 x 100 x 520	31
775-2004**	200	400	500 x 220 x 646	63

** code suffix depends on features (no. of wires, mounting,)

WALL CONFIGURATION
4,3'' HMI Display



IN-PANEL CONFIGURATION
Rack modules in IP20 o IP54 enclosure
7'' HMI display

