

PQvar Series Static Var Generator (SVG)

Series/Type: Ordering code: PQSM8095V700/ 3P4W module B44066F8095V700

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PQvar Series Static Var Generator (SVG)

B44066F8095V700

PQSM8095V700/ 3P4W module

Characteristics

- Static Var Generator (SVG) PQvar Series utilizes three level inverter topology to provide real time response to reactive power requirements and load balancing. It monitors the current continuously and compensates the reactive part of the measured current.
- 95 kvar 3P4W (3-phase/4-wire) device for phase and neutral wire current correction

Features

- User-friendly menu operation via TFT color touch screen
- **Reactive power compensation** $\cos \phi \le 0.99$
- Ultra-fast reactive power compensation
- Load balancing between phases and neutral wire
- Power factor correction fully inductive and capacitive current compensation from 0 ... 100%
- High performance and reliability
- Simple installation & commissioning

Typical applications

- Industries having variable frequency drives, inverters UPS, furnaces such as paper, steel rolling mills, textile, garment, software parks, automotive, battery manufacturing, continuous process plants, pharmaceutical industries, etc.
- Green power generation (e.g. photovoltaics and wind turbines)
- Data centers, hotels, hospitals, shopping malls and office buildings

Safety features

- Highest safety and reliability
- Overload protection
- Internal short-circuit protection
- Overheating protection
- Overvoltage and undervoltage protection
- Inverter bridge protection
- Resonance protection
- Fan fault alarm



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Technical data and specifications SVG s	system
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PQSM8095V700		
B44066F8095V700		
3-phase/4-wire		
95 kvar		
45 Hz to 62 Hz		
690V(-30%~+15%)		
12 IGBT three-level topology		
<15 ms (steady state response time to full steady state compensation)		
Fully inductive and capacitive current compensation from 0 100%		
Approx. 66 kg		
Approx. 544x640x250 mm (w x d x h)		
3 CTs are needed. Source or load-side selectable, primary current range 150 A 10000 A, secondary current 5 A (see details of choosing the right CT in the manual) External current transformers are mandatory needed, but not included in the SVG delivery.		
> 97%		
Rack		
Smart air cooling 359L/sec		
RS485, CAN, and network port		
Modbus and PMBus		
-10 +40 °C		
IP20 (other IP classes are customizable)		
RAL7035 light grey		



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Humidity	5%~ 95%, non-condensing	
Self-protection	Yes	
Overheating protection	Yes	
Overvoltage and undervoltage protection	Yes	
Typical noise level	< 65 dB (depending on model and load conditions)	
Altitude	1% up 1500 m. Between 1500 m to 4000 m, according to GB/T3859.2, the power decreases by 1% for every additional 100 m.	
General safety requirements for SVG use and operation area	EN 50178:1997/IEC 50178:1997	
SVG EMC requirements	EN 61000_6_2(2005)/EN55011,GROUP1,CLASS A	
	IEC 61000_6_2(1999)/CISPR11,GROUP1,CLASS A	
SVG performance requirements	EN 50091-3/IEC 62040-3/AS 62040-3(VFI SS 111)	

Technical data and specifications SVG system (cont.)

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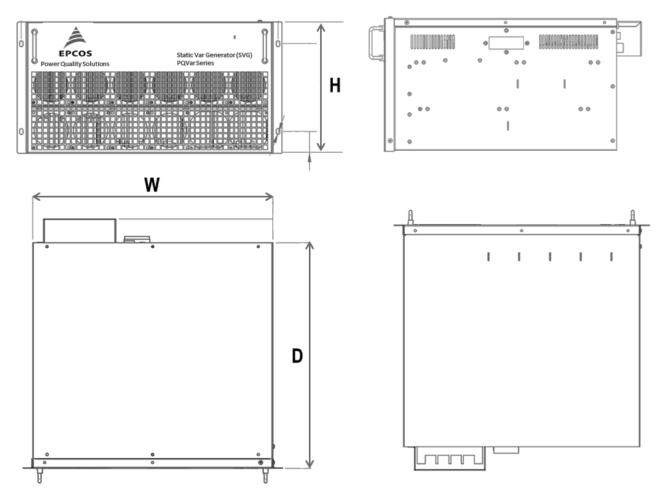
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PQSM8095V700/ 3P4W module

Dimensional drawing – 95 kvar module

Outside cabinet dimensional drawings



Model	W (width) mm	D (depth) mm	H (height) mm
95 kvar module	544	640	250

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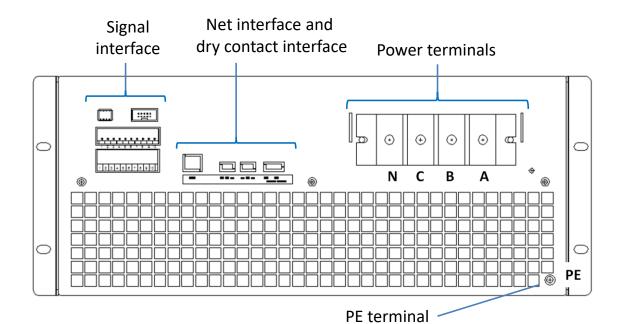
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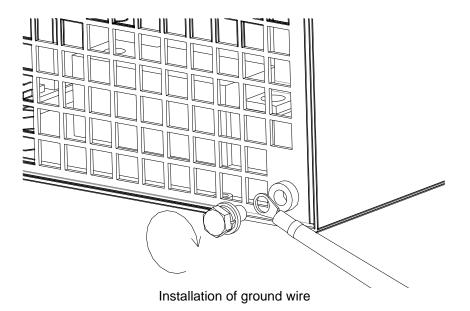
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AC mains connection



Wiring terminal





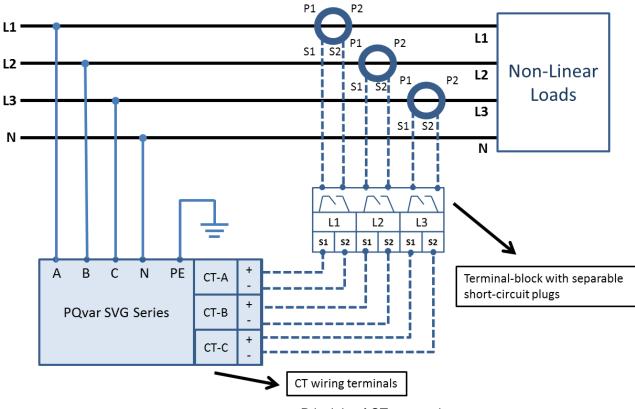
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Connection Diagram

Grid



Principle of CT connection

Note: Current transformers are not included in the delivery and must be purchased separately.

Please also carefully read the cautions, notes and warnings in the SVG PQVar operating and installation instructions manual!

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