



EOS – ELECTRONIC-ONLINE-STABILIZER VOLTAGE STABILIZING IN MILLISECONDS

THE SITUATION THAT YOU FACE

Safe and reliable supply of electricity of the key factor to ensuring operational security and to reducing costs in the longterm. If a stable supply of electrical energy can not be guaranteed the customer faces high risks of unplanned downtimes and often ends up paying increased energy costs.

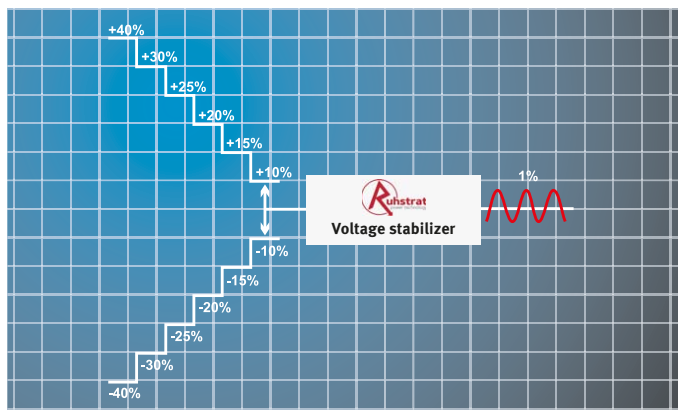
Overcome the trouble of instable mains with Ruhstrat EOS

With Ruhstrat EOS you have a convenient and reliable solution to ensure power quality locally and overcome the dependence on energy utility companies. Ruhstrat EOS is able to supply constant voltage even if your local voltage supply is out of limits or the grid is unstable. You will reduce your costs and improve operational security due to the following benefits:

- Minimize downtimes and increase capacity in production
- Extend the lifespan of equipment
- Improve the quality of services and products
- Reduce costs through a highly efficient and compact solution

Working principle

EOS is capable of controlling the load side voltage in less than 10 ms to nominal values. As it is an online system the regulation starts within 250µs and compensation is typically achieved within 2–3 ms. Therefore all problems regarding imbalances and voltage swells will be compensated after installation. The fast action of EOS is unique and especially important if voltage recovers from a dropout. EOS is using OLIVER technology and has many references within industry.





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| Available product range | | | | | | | | |
|-------------------------|---------------------------------------|---------|---------|---------|-----------------------------|-------------|-----------|-----------|
| Size | Rated real power and regulation range | | | | Mechanical dimensions IP21* | | | |
| | ± 15 % | ± 20 % | ± 25 % | ± 30 % | Width mm | Depth mm | Height mm | Weight kg |
| 1 | 550 kW | 400 kW | 300 kW | 240 kW | 800 | 600 | 2200 | 900 |
| 2 | 1100 kW | 800 kW | 600 kW | 480 kW | 1600 | 800 | 2200 | 1800 |
| 3 | 1650 kW | 1200 kW | 900 kW | 720 kW | 2000 | 800 | 2200 | 2350 |
| 4 | 2200 kW | 1600 kW | 1200 kW | 960 kW | 2400 | 800 | 2200 | 3000 |
| 5 | 2750 kW | 2000 kW | 1500 kW | 1200 kW | 3200 or 1800 | 800 or 1400 | 2200 | 4150 |
| 6 | 3300 kW | 2400 kW | 1800 kW | 1440 kW | 3200 or 1800 | 800 or 1400 | 2200 | 5100 |

* IP54 also available on request.
480 V System may have additional weight – Power factor $\geq 0,8$

Additional EOS and OLIVER products and services

- Service bypass
- IP54 Housing
- Increased ambient temperatures
- Additional measurement instrumentation
- Customer specific design
- On-site measuring and consulting
- Global support

Installation requirements

EOS must be installed on stable foundations and shall be installed in a restricted access location.

The system shall be installed within a clean electrical room having a maximum ambient temperature of 40 °C. The system is designed to be used for commercial or industrial applications. Systems requiring increased environmental and or technical conditions are available on request.

EOS is designed according to international standards

| | |
|-------------|---------------------------------|
| Quality | ISO 9001 |
| Environment | ISO 14001 |
| EMC | IEC / EN 61000-6-2, 2004-108/EC |

www.ruhstrat.com

RPT Ruhstrat Power Technology GmbH, Heinstraße 12, 37120 Bovenden, Germany, Phone: +49 55 93 9 37 22-0, E-Mail: info@ruhstrat.com

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