DECISIONS ARE NOW EASIER.

The VAMOCON 1250 switchgear system.
Power switchgear and controlgear assembly from 630 to 1,250 A
according to DIN EN 61439 1/ 2.

VAMOCON
1250

POWER
DISTRIBUTION
IS NOW! GREEN

WHAT DRIVES US: ENERGY SAVINGS, SUSTAINABILITY AND CO_2 REDUCTIONS

The new VAMOCON 1250 system requires up to 30 per cent less copper, generates up to 20 per cent less power losses and has less plastic installed. The CO2 saved over the service life amounts up to 3.5 tonnes per metre of switchgear assembly. We will gladly demonstrate to anyone interested that VAMOCON 1250 can also be used for even longer and saves up to 3,000 euros in electricity costs per metre of switchgear assembly.

VAMOCON 1250 IS READY FOR THE CHANGE. ARE YOU TOO?

Whether VAMOCON 1250 or VAMOCON 5000 – with power distribution systems from SEDOTEC you'll always receive the best advice. We make distributing power in industry and building technology safer, more efficient and more sustainable.

Every contact with us brings you a step further. Our experts can draw on many years of experience in electrical engineering and provide you with optimum support for your questions. With our expertise on the phone or on site, your time expenditure is reduced to a minimum.

You can reach us at +49 6203 9550-33
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VAMOCON
A SEDOTEC brand

TECHNICAL DATA FOR THE VAMOCON 1250

Plug-in switchgear from ABB, Schneider Electric, Siemens, Efen, Jean Müller, Wöhner in protection ratings IP30 or IP54 according to EN 60529; forms of internal separation ranging from Form 1 to 4b, depending on the cubicle type

Power switchgear and controlgear assembly with design verification by testing to EN 61439-1/-2:2011, DIN EN 61439-1/-2:2012-06 and VDE 0660-600-1/-2:2012-06 as well as protection against electric shock according to DIN EN 50274, VDE 0660 Part 514

Dimensions height (mm, without plinth) 2,000; width (mm) 400 / 600 / 850 / 1,100; depth (mm) 425 (frame) + 25 (door), total 450; plinth height (mm) 150 (300 when combining 2 plinths)

Rated current (I_n) up to 1,250 A; rated impulse withstand voltage (U_{imp}) 8 kV; rated peak withstand current (I_{pk}) main busbars (3-pole) 105 kA; rated short-time withstand current (I_{cw}); main busbars (3- and 4-pole) 50 kA 1 sec.; rated frequency (f) 50 to 60 Hz; rated insulation voltage (U_i) main circuit 1,000 V; rated operational voltage (Ue) main circuit up to 400 V

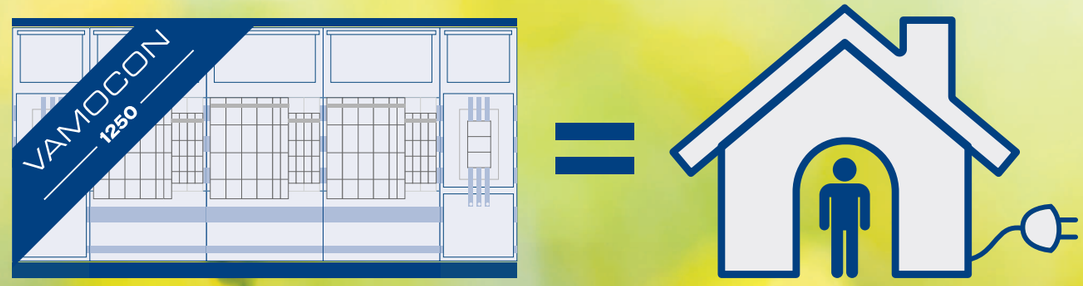
SAVING CO_2 RELIEVES THE ENVIRONMENT.

VAMOCON 1250 impresses thanks to its consistently sustainable and resource-saving design.

	Conventional switchgear assembly	VAMOCON 1250	Change
Cross-section main busbar	60 x 10 3pol	80 x 10 3pol	+ 33 %
Power loss (watt)	1,272	980	- 23 %
Power loss (kWh) p.a.	5,149	3,967	- 23 %
CO_2 emission electricity mix (kg) p.a.	1,884	1,452	- 23 %

Table: Comparison of 1,250 A switchgear assembly with 4-metre system length

With VAMOCON 1250, the main busbar has a greater amount of copper because its 80 x 10 mm dimensions are larger than the conventional 60 x 10 mm. However, the more voluminous design of the cross-section makes sense. This is because the system heats up less and the power loss decreases. The entire system is significantly less “stressed” in continuous operation and lasts longer overall.



This reduces the power lost from a four-metre-long VAMOCON 1250 switchgear assembly by around 1,200 kWh per year. This corresponds to the annual electricity consumed by a single-person household. Over the lifetime of the switchgear assembly, this adds up to several thousand euros in potential savings. The one-time additional expenditure for the copper of just under 300 euros pays for itself in the first year.

THINKING ABOUT THE ENVIRONMENT PAYS OFF FOR OPERATORS.

With a four-metre-long switchgear assembly, the operator saves more than 12,000 euros in electricity costs during its service life. The fact that the system’s dimensions enable it to be used even longer increases the savings potential even more.

Calculation example:
For a switchgear assembly with a rated current of 1,250 A, we assume an average service life of 30 years, 2-shift operation and an industrial energy price of 18.55 Ct/kWh. The additional cost of copper due to the larger cross-section compared with a conventional main busbar is offset by the saved power loss of 73 W. The energy saved in this way amounts to 295 kWh per year and metre of switchgear assembly. This means that the larger copper cross-section already pays for itself in the first year of operation. If we factor in price increases, your VAMOCON 1250 will save you 3,000 euros in energy costs and 3.5 tonnes of CO_2 per metre of switchgear assembly over the period of use. *

So it pays off. How long is your switchgear assembly?

* All values are per METRE of switchgear assembly. The reduced power loss from the main busbar system and the energy and CO_2 savings are derived on the basis of DIN EN 61439-1 Supplement 2 (A method of temperature-rise verification of low-voltage switchgear and controlgear assemblies by calculation) and Table B.3 (Operating current and power loss of bare copper bars inside the enclosure).

LESS PLASTIC, NO WELDING, NO PAINT.

Because VAMOCON 1250 largely dispenses with standard cubicle-high covers, significantly less plastic is used. The assemblies are constructed of sheet metal and copper in a recycling-friendly way.

VAMOCON 1250 protects people and equipment by strictly separating the inner functional area for the main busbar from the switchgear and cable connections (Form 2b internal separation). Live areas are therefore safely protected against direct contact and penetration by foreign bodies.

VAMOCON 1250 is available in protection ratings IP30 and IP54 (protected against dust and splash water). An innovative corner connector seals the frame from the inside without welding. As there are no welded seams, there is no need to powder-coat the frame made of galvanised sheet steel. This saves material, energy and CO_2.

VAMOCON 1250 is rounded off by a comprehensive portfolio of cable entry flanges in protection ratings up to IP54.

PARTIALLY ASSEMBLED CUBICLES REDUCE PACKAGING WASTE.

VAMOCON cubicles are always delivered to assembly manufacturers partially assembled with built-in copper busbars. The assembly manufacturers can then immediately install the switchgear, carry out the wiring and deliver the assemblies as quickly as possible.

Compared with conventional systems delivered as flat packs, there is significantly less packaging waste. Instead of laboriously wrapping individual parts in cardboard, shrink-wrapping them with film and protecting them with polystyrene, SEDOTEC slots them into the right place in the partially assembled cubicle. A welcome side effect: Assembly manufacturers save up to eight hours of working time per cubicle that would normally be required for assembling standard cubicles and installing copper busbars in the workshop.

VAMOCON 1250's packaging can be directly used for transporting the assembly from the assembly manufacturer to the installation site.

DECIDE NOW – WE TAKE CARE OF THE REST.

We help our customers progress, supporting them with our holistic way of thinking so that they can develop themselves further. With VAMOCON, we offer modular kit systems for power switchgear and controlgear assemblies up to 5,000 A. And because on request we also prefabricate and pre-assemble copper busbars – the "lifelines" within switchgear assemblies – with our new, unique and state-of-the-art punching and bending centres for copper bars, you can devote much more time to the new, value-creating challenges posed by digitalisation.

Trust in development and production made in Germany! With VAMOCON, we prove that innovations combined with maximum quality and on-time delivery can be economical and successful in Germany. We have made this success story a reality at our sites in Ladenburg and Mittweida.

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Scan the QR code and let yourself be inspired: