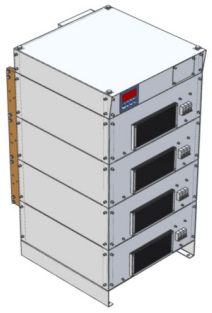
SC-RTM-04000-016

Modular IGBT switching rectifier

PRELIMINARY TECHNICAL INFORMATION

HIGHLIGHTS

- Modular construction
- Forced air cooled
- Intuitive interface, clear display
- PLC communication interfaces available
Modbus, Profibus and Profinet



non-contractual image

SC-RTM Series offers a true modular approach for plating rectifiers where each module is fully autonomous, containing both control and power units. Each module can independently manage its operations, and in case of a failure, the faulty module is automatically deactivated. The remaining modules continue to supply the required current and voltage, up to the installed maximum, without any interruption for the user.

This design provides enhanced reliability, as the system can continue to function even if one module fails, and allows for easy replacement of faulty modules within ten minutes by regular maintenance personnel. All connections are plug-and-play, making servicing straightforward.

ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Notes / test conditions	Min	Typ	Max	Units
$V_{AC\ OUT}$	Output voltage		0		16	V_{DC}
$I_{DC\ OUT}$	Rated load		0		4000	A_{DC}
η	Efficiency			88%		
P_{OUT}	Maximum output power				64	kW
V_{SUPP}	Mains supply voltage	*3P+T, 50 Hz*		400		V_{AC}
P_{INP}	Maximum absorbed power				72727	VA
V_{MAINS_ISO}	Mains insulation	*50 Hz @1min*			2500	V_{RMS}
I_{RES}	Current resolution and precision	*0-100% output power range*			±1%	
V_{RES}	Voltage resolution and precision	*5-100% output power range*			±1%	
IP	Protection degree			IP41		
T_{OP}	Operating temperature				40	ºC
%RH	Maximum operation humidity				80	%

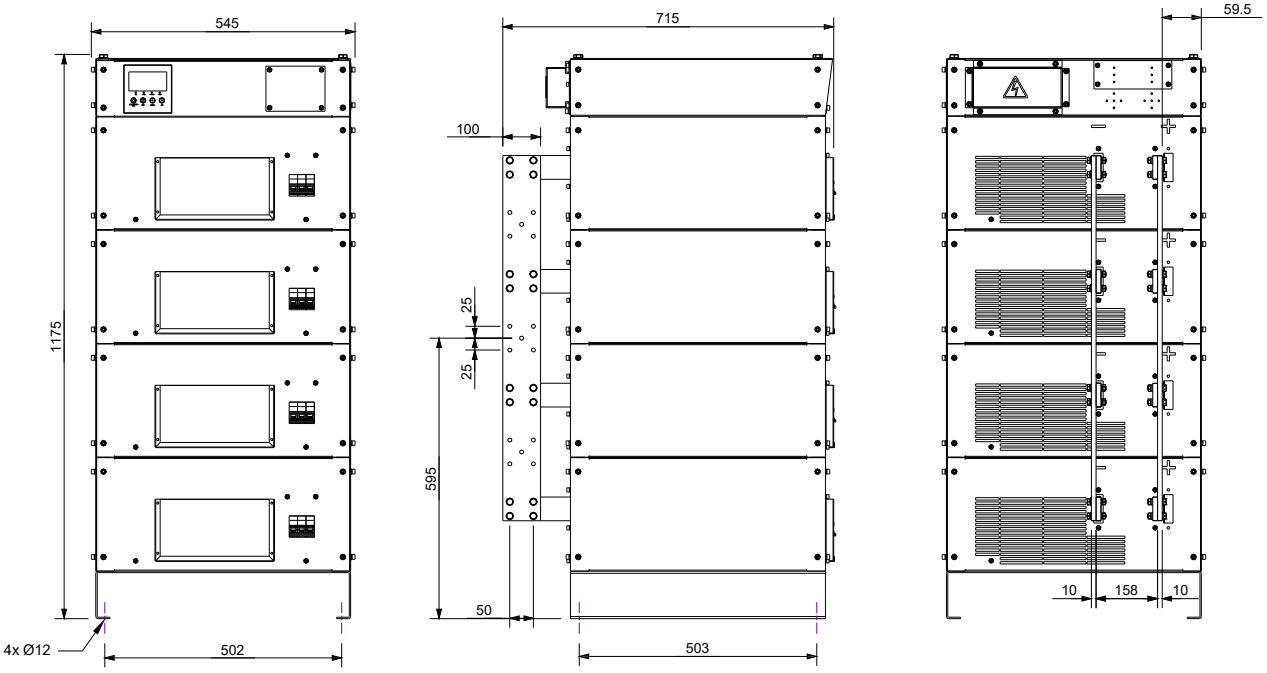
OTHER CHARACTERISTICS

Parameter		
Power modules type		IGBT
Digital controller panel		DE100
Available communication PC/PLC (on request)	*Ethernet:*	Profinet, Modbus-TCP
	Serial port:	Profibus, RS485 Modbus-RTU
	Analog signal:	0-10V, 0-20 mA, 4-20 mA
Polarity inversion function		on demand
Shortcircuit protection		x
Overtemperature protection		x
Overvoltage protection		x
Cooling		Forced air
Housing finish / coating		RAL 7035 – Epoxy coating

241014 Rev.:0

Reserved the right to change limits, test conditions and dimensions
given in this data sheet at any time without previous notice.

MECHANICAL DIMENSIONS



(All dimensions in mm)

Dimension	Value	Units
Enclosure type	T4	
Width	545	mm
Height	1175	mm
Prof.	715	mm
Weight	246	kg

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Cost Effective Products

SEMICODE ELECTRONICA

Offers to the market a comprehensive range of products from recognized manufacturers at the best price/quality ratio, this products are provided with a basic reference code that allows maintaining the same product reference even if the original device manufacturer is replaced. SEMICODE product reference has to be considered as a generic brand.

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SEMICODE products include semiconductors, passive components and accessories focused in power electronics market.

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Advance Information: The product design is complete and final characterisation for volume production is well in hand.
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