



- Space saving
- Manual or automatic controlled
- Rack installation possible
- Ah counter, ramp software and more
- Ease of service
- Upgradable



<b>TECHNICAL SPECIFICATION</b>		<b>Q150D - DESKTOP</b>
Main voltage (3 Phase)		208 - 230 - 400 - 440 - 480 - 575 VAC ± 10% / 50-60 Hz
Max. output voltage		5 - 160 VDC
Max. output current		10 -1000 A DC
Current ripple		<2% (<1% on request)
Operation mode		Current or voltage control
Current regulation range		2 - 100%
Voltage regulation range		5 - 100%
Accuracy		1% of full scale
Power factor		>0.95 @ rated load
Efficiency		>89% @ rated load
Color		RAL 3004
Cooling		Air and Water
Degree of protection	Air cooled	IP31
	Water cooled	IP42 / IP54
Weight		Max. 35 kg
Ambient temperature		40°C (up to 50°C on request)
Input water cooling temperature		19 - 28°C (up to 35°C on request)





## OPTIONS

### COMMUNICATION BOX



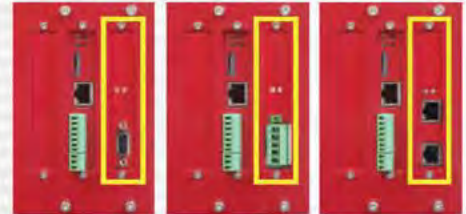
Small and easy access communication box. Cover can be removed to work on cables and interfaces.

### REMOTE CONTROL



Small optimized remote control with Ah counter, ramp function, time control and more.

### COMMUNICATION ADAPTERS



Profibus-DP, Devicenet, Profinet, Ethernet-IP, Modbus/TCP networks and more

### ANALOGUE INTERFACE



Provides digital and analogue I/O to control the rectifier. Ready for 0-10V or 4-20mA signal.

### INPUT/OUTPUT SCREW INTERFACE



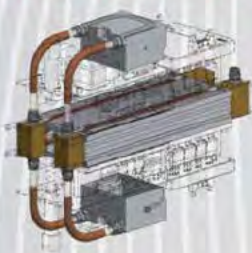
Screw terminal for Modbus RS485 and CPU connection.

### MULTI-TOWER INTERCONNECTION



Small kit to be connected to the CPU to turn the rectifier in a tower of a multi-tower system. Towers of different model, type and size can be mixed together. Towers are connected in a daisy-chain way, with a RJ45 cable going from tower to tower.

### WATER COOLING SYSTEM IN COPPER



Water cooling system without aluminum parts. Enhanced reliability and robustness of the cooling circuit





- Space saving
- Manual or automatic controlled
- Rack installation possible
- Ah counter, ramp software and more
- Ease of service
- Upgradable



<b>TECHNICAL SPECIFICATION</b>		<b>Q150R - RACK</b>
Main voltage (3 Phase)		208 - 230 - 400 - 440 - 480 - 575 VAC ± 10% / 50-60 Hz
Max. output voltage		5 - 160 VDC
Max. output current		10 - 1000 A DC
Current ripple		<2% (<1% on request)
Operation mode		Current or voltage control
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Degree of protection	Air cooled	IP31
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Weight		Max. 35 kg
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## OPTIONS

### COMMUNICATION BOX



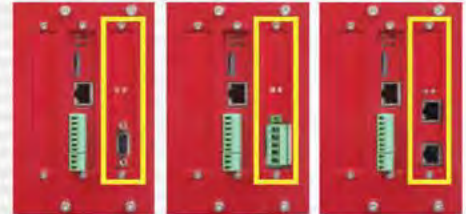
Small and easy access communication box. Cover can be removed to work on cables and interfaces.

### REMOTE CONTROL



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### COMMUNICATION ADAPTERS



Profibus-DP, Devicenet, Profinet, Ethernet-IP, Modbus/TCP networks and more

### ANALOGUE INTERFACE



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### INPUT/OUTPUT SCREW INTERFACE



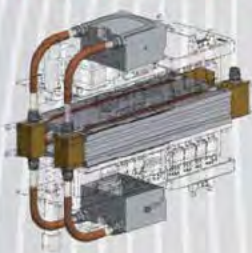
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### MULTI-TOWER INTERCONNECTION



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### WATER COOLING SYSTEM IN COPPER

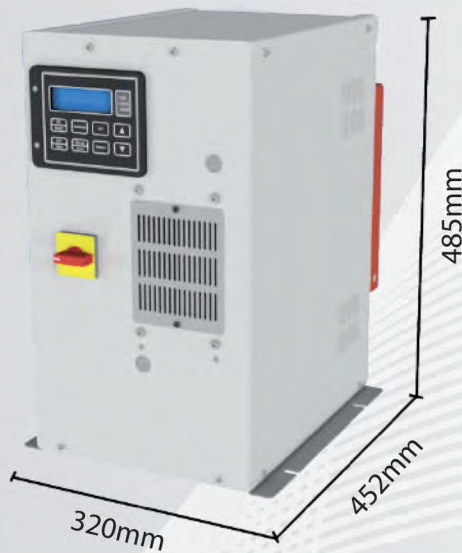


Water cooling system without aluminum parts. Enhanced reliability and robustness of the cooling circuit





- Space saving
- Manual or automatic controlled
- Steel and aluminum version
- Ah counter, ramp software and more
- Ease of service
- Upgradable



<b>TECHNICAL SPECIFICATION</b>		<b>Q150V - VERTICAL</b>
Main voltage (3 Phase)		208 - 230 - 400 - 440 - 480 - 575 VAC ± 10% / 50-60 Hz
Max. output voltage		5 - 160 VDC
Max. output current		10 - 1000 A DC
Current ripple		<2% (<1% on request)
Operation mode		Current or voltage control
Current regulation range		2 - 100%
Voltage regulation range		5 - 100%
Accuracy		1% of full scale
Power factor		>0.95 @ rated load
Efficiency		>89% @ rated load
Color		RAL 3004
Cooling		Air and Water
Degree of protection	Air cooled	IP31
	Water cooled	IP42 / IP54
Weight		Max. 35 kg
Ambient temperature		40°C (up to 50°C on request)
Input water cooling temperature		19 - 28°C (up to 35°C on request)





## OPTIONS

### COMMUNICATION BOX



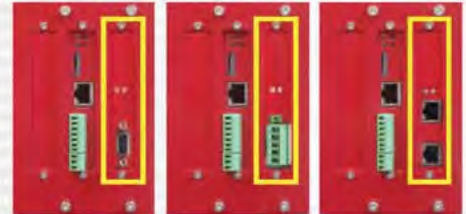
Small and easy access communication box. Cover can be removed to work on cables and interfaces.

### REMOTE CONTROL



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### COMMUNICATION ADAPTERS



Profibus-DP, Devicenet, Profinet, Ethernet-IP, Modbus/TCP networks and more

### ANALOGUE INTERFACE



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### INPUT/OUTPUT SCREW INTERFACE



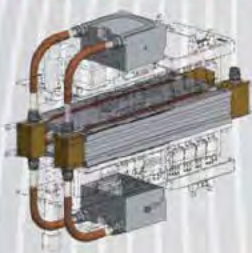
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### MULTI-TOWER INTERCONNECTION



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### WATER COOLING SYSTEM IN COPPER



Water cooling system without aluminum parts. Enhanced reliability and robustness of the cooling circuit





- Space saving
- Manual or automatic controlled
- Wall installation for better space use
- Ah counter, ramp software and more
- Ease of service
- Upgradable



<b>TECHNICAL SPECIFICATION</b>		<b>Q150W - WALL</b>
Main voltage (3 Phase)		208 - 230 - 400 - 440 - 480 - 575 VAC ± 10% / 50-60 Hz
Max. output voltage		5 - 160 VDC
Max. output current		10 - 1000 A DC
Current ripple		<2% (<1% on request)
Operation mode		Current or voltage control
Current regulation range		2 - 100%
Voltage regulation range		5 - 100%
Accuracy		1% of full scale
Power factor		>0.95 @ rated load
Efficiency		>89% @ rated load
Color		RAL 3004
Cooling		Air and Water
Degree of protection	Air cooled	IP31
	Water cooled	IP42 / IP54
Weight		Max. 35 kg
Ambient temperature		40°C (up to 50°C on request)
Input water cooling temperature		19 - 28°C (up to 35°C on request)





## OPTIONS

### COMMUNICATION BOX



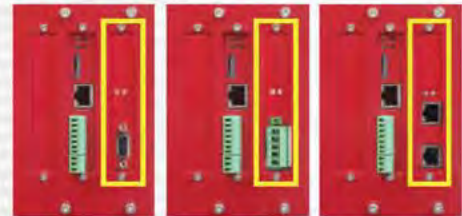
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### REMOTE CONTROL



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### COMMUNICATION ADAPTERS



Profibus-DP, Devicenet, Profinet, Ethernet-IP, Modbus/TCP networks and more

### ANALOGUE INTERFACE



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### INPUT/OUTPUT SCREW INTERFACE



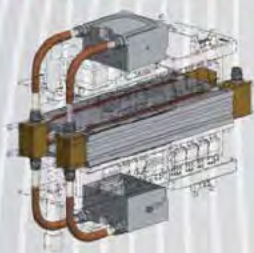
Screw terminal for Modbus RS485 and CPU connection.

### MULTI-TOWER INTERCONNECTION



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### WATER COOLING SYSTEM IN COPPER



Water cooling system without aluminum parts. Enhanced reliability and robustness of the cooling circuit





- Space saving
- Wall installation for better use of space
- Manual or automatic controlled
- Ah counter, ramp software and more
- Ease of service
- Expandable for more power



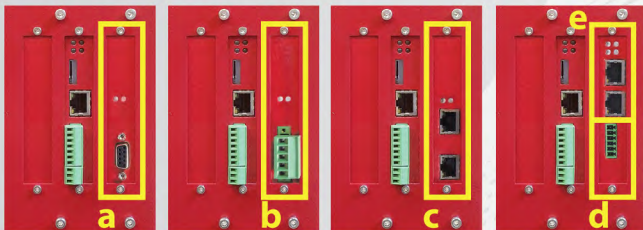
<b>TECHNICAL SPECIFICATION</b>		<b>Q150W - WALL - STAINLESS STEEL</b>
Main voltage (3 Phase)		208 - 230 - 400 - 440 - 480 - 575 VAC ± 10% / 50-60 Hz
Max. output voltage		5 - 160 VDC
Max. output current		10 - 1000 A DC
Current ripple		<2% (<1% on request)
Operation mode		Current or voltage control
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## OPTIONS

### COMMUNICATION ADAPTERS



Profibus-DP<sup>(a)</sup>, Devicenet<sup>(b)</sup>, Profinet<sup>(c)</sup>, Ethernet-IP<sup>(c)</sup>, Modbus/TCP<sup>(c)</sup>, Modbus-RTU<sup>(d)</sup> networks and more. On the Modbus-RTU adapter there is a dual RJ45 port<sup>(e)</sup> log bus, to interface a computer.

### MULTI-TOWER INTERCONNECTION



Small kit to be connected to the CPU to turn the rectifier in a tower of a multi-tower system. Towers of different model, type and size can be mixed together. Towers are connected in a daisy-chain way, with a RJ45 cable going from tower to tower.

### WATER FLOW SENSOR AND SOLENOID



The internal adjustable flow sensor assures minimum required flow rate and report low water flow rate alarm. The external solenoid can be used to stop circulation of cold water when rectifier is in stand-by, thus reducing potential condensation.

### ANALOGUE INTERFACE



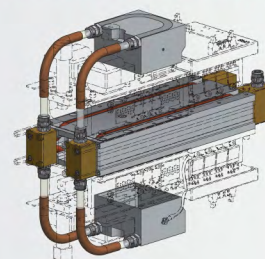
Provides digital and analogue I/O to control the rectifier. Ready for 0-10V or 4-20mA signal.

### REMOTE CONTROL



Small optimized remote control with Ah counter, ramp function, time control and more.

### WATER COOLING SYSTEM IN COPPER



Water cooling system without aluminum parts. Enhanced reliability and robustness of the cooling circuit