Technical Data Sheet

RACPRO1-DP-T720-4SP Series ◊ PSU with integrated e-Fuse

720W ◊ Input: 400-480VAC nom. / 500VDC nom.

RECOM
AC/DC Converter

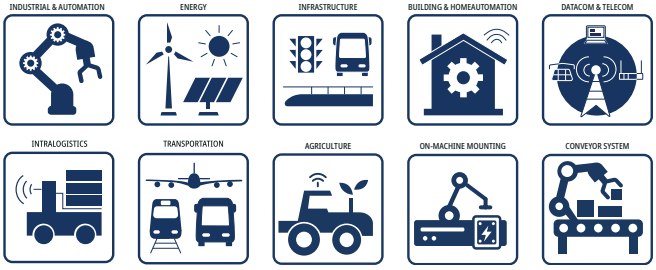
FEATURES

- Highest power density 400W/l
- Up to 3x600V AC - & 800V DC Input
- PFC>0,9 and insignificant inrush current
- Highest efficiency up to 95.8%
- Built-in 4-channel e-Fuse 4x 10A
- Every channel NEC Class 2 adjustable
- Safe start against highly capacitive loads 40mF
- Temperature range -40°C/+70°C
- Highest output power 720W at 30°C
- Peak power 1.080W at 70°C/5s
- Highest lifetime 195kh at 20°C/500W
- U/I-adjustment possible in Offline-Mode
- Made in Europe with 3 year warranty



Dimensions (LxWxD): 192 x 177 x 60 mm (7.6 x 7 x 2.4 inch)

APPLICATIONS



SAFETY & EMC

RoHS² compliant 10 from 10 | Reach compliant | IECEE CB SCHEME | CE | cULus LISTED E550315

DESCRIPTION

The robust RACPRO1-DP-T720-4SP is a 720W IP67-sealed, waterproof and dustproof three-phase AC input power supply engineered for decentralized power architectures. Designed for direct mounting on industrial equipment such as motors, conveyor belts, and machines, it eliminates the need for traditional switching cabinets.

Featuring an integrated 4-channel e-Fuse module, the RACPRO1-DP-T720-4SP powers up to four independently protected loads from a single unit. Each output is individually monitored and current-limited with NEC Class 2 adjustment at 3A, ensuring a fault or temporary overload on one channel does not affect the others. Four LEDs provide clear real-time load current and fault indication, supported by a remote DC-OK signal for easy commissioning and continuous monitoring.

Decentralized power delivers significant benefits: lower installation costs, reduced cabling (less copper), and greater system flexibility. The RACPRO1-DP-T720-4SP is purpose-built for these demanding, exposed environments. It accepts a wide three-phase 320–600 VAC or 425–800 VDC input (DC microgrid compatible) with active inrush current limiting and delivers a trimmable 24 VDC output via sealed IP67 connectors. With peak efficiency of 95.8 %, it provides full output power up to +30 °C using only convection cooling.

Measuring just 192 × 177 × 60 mm and weighing appr. 1.5 kg, it achieves class-leading power density of 400 W/l — making machine or bulkhead mounting straightforward and space-efficient. Certified to IEC/EN/UL 61010-1 and IEC/EN/UL/CSA 61010-2-201, the unit meets heavy-industrial EMC requirements (EN 61000-6-4 Class B emissions and EN 61000-6-2 immunity) and offers extended 6 kVAC surge immunity. Manufactured in Europe and backed by a 3-year warranty, the RACPRO1-DP-T720-4SP sets a new benchmark for rugged, multi-channel decentralized power.

SELECTION GUIDE

Part Number	Input voltage range [VAC]	Output voltage factory set [VDC]	Adjustable output voltage [VDC]	Output channels [ ]	Output current per channel max. [A]	Efficiency (1) typ. [%]	Rated output power (2) [W]
RACPRO1-DP-T720-4SP/24/10A (3)	3x 320-600	24	24-29	4	10	95.8	720

Note1: Efficiency is tested at nominal input (400/480VAC) and light load at +25°C ambient.

Note2: Boost Power 150% (1080W) for 5sec max., over the entire operating ambient temperature range; refer to **„Boost Power“**.
Total output current for continuous operation= 30A max. refer to **„Derating Graph“**

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MODEL NUMBERING

RACPRO1-DP-T720-4SP/24/10A/M12

- DP: Decentralized Power Supply
- T720: nom. Output Power
- 4SP: integrated 4 channel eFuse
- 24: nom. Output Voltage
- 10A: Max. Output Current / Channel
- M12: Connector Options [3]

Note3: add suffix "/M12" for M12 connector types. Detail information: **„Dimension Drawing RACPRO1-DP-T720-4SP/24/10A/M12 (mm)"**
Other connector/output voltage variants on request. See ordering information below.

ORDERING INFORMATION

Model	Nominal output voltage (factory set)	Connector type	
		M12 connector */M12	7/8" connector */S78
RACPRO1-DP-T720-4SP/24/10A*	24VDC	y	coming soon

y= standard portfolio; on request= MOQ may apply on project base

BASIC CHARACTERISTICS (measured @ T_{AMB}= 25°C, 3AC 400VAC full load and after warm-up unless otherwise stated)

Parameter	Condition		Min.	Typ.	Max.
Nominal Input Voltage	50/60Hz		400VAC		480VAC
Operating Range [4]	3 phase operation [5]		320VAC		600VAC
	DC input; refer to **„Connections for DC-operation"**		425VDC		800VDC
Turn-on Voltage	prevents switching on during 1AC operation			296VAC	
	DC operation			419VDC	
Turn-off Voltage	AC operation			198VAC	
	DC operation			265VDC	
Input Current	AC operation	400VAC		3x 1.2A	
		480VAC		3x 1A	
	DC operation	500VDC		2x 1.5A	
Inrush Current	3AC 400VAC, cold start		no inrush current except EMC charging peaks		
No Load Power Consumption	3AC 400VAC			4.9W	
	3AC 480VAC			5.1W	
Power Dissipation	full load			35.7W	
Input Frequency Range			47Hz		63Hz
Nominal Output Voltage (factory set)				24VDC	
Output Voltage Adjustability [6]	potentiometer, 8 selectable voltage steps; selected voltage is common to all channels		24V, 24.5V, 25V, 25.5V, 26V, 27V, 28V, 29VDC		
Output Current Range (adjustable) [7]	potentiometer, 8 selectable current limits steps		3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A		
Voltage Drop	per channel				250mV
Minimum Load			0%		
Power Factor	full load			0.93	
Start-up time	3AC 400VAC		refer to **„Start-up Sequence"**		
Rise time				22ms	
Hold-up time	400/480VAC			20ms	
Turn-On delay of Outputs [8]			50ms		250ms
Internal Operating Frequency				70kHz	
Ripple and Noise	20MHz bandwidth			70mVp-p	

Note4: The products were submitted for safety files at AC and DC-Input operation. (320V-600VAC and 425-800VDC)
If input voltage is >500VDC consider an external fuse according to applicable standards.

Note5: Output power derating for Line-input above 3AC 550VAC (derate linearly from 100% at 550VAC to 90% at 3AC 600VAC)

Note6: Make sure that the maximum rated output power will not be exceeded when trimming up.

Note7: When the minimum current limit (3 A) is selected, the LED turns blue, confirming compliance with NEC Class II requirements.
For output voltages above 24V, the minimum current is reduced from 3A to comply with NEC Class II (72W output power guaranteed).
For detail information refer to **„OUTPUT CURRENT LIMIT ADJUSTABILITY (2)"**

Note8: 500ms until first channel start-up, thereafter with 50ms delay. Channel [k+1] only starts up once channel [k] has successfully turned on.

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RACPRO1-DP-T720-4SP Series ◊ PSU with integrated e-Fuse

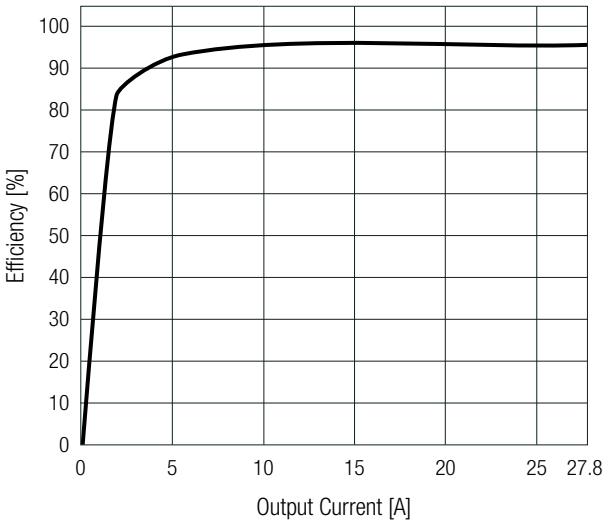
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RECOM AC/DC Converter

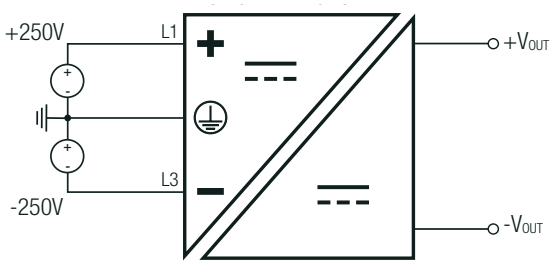
BASIC CHARACTERISTICS (measured @ T_{AMB}= 25°C, 3AC 400VAC full load and after warm-up unless otherwise stated)

Efficiency vs. Load

(400VAC, 26VDC)

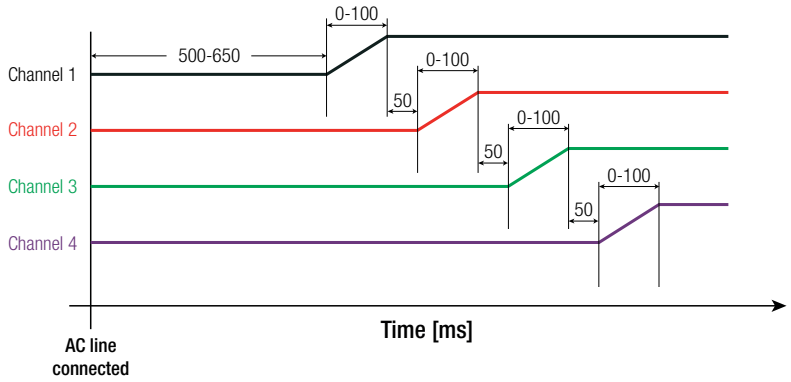


Connections for DC-operation



Start-up Sequence

The graph illustrates the staggered start-up sequence of the four output channels. Each channel is enabled sequentially to ensure controlled power-up of the connected loads.



The turn-up time delay for Channel 1 (CH1) depends on the AC line input level.
The turn-up delay for channels greater than 1 is 50ms and its initiation depends on previous channels conditions (no ramp up or protection mode).
The 0~100ms range varies according to the load type. This ensures a controlled soft start-up, minimizing stress on the system while supporting large capacitive and inductive loads.

REGULATIONS (measured @ T_{AMB}= 25°C, 3AC 400VAC full load and after warm-up unless otherwise stated)

Parameter	Condition	Value
Output Accuracy		±1.0% max.
Line Regulation	low line to high line, full load	±0.1% typ.
Load Regulation	0% to 100% load	±0.5% typ.
Max. Capacitive Load (start-up)	per channel	40mF
Transient Response	10-100% load	±3.0% typ.
	recovery time	1ms typ.

ADDITIONAL FEATURES

Parameter	Condition	Value
Boost Power	refer to **„Boost Power“**, over the entire operating range up to 70°C	150% (1080W max.) for 5s
Load Indication LED	refer to **„LED STATUS INDICATOR** (3)“	RGB LED
Signal Contact	closed	normal mode
	open	abnormal mode, no operation or failure
Signal Contact Rating	do not connect signaling contact to hazardous voltages	30VDC/0.1A
Remote Reset	referred to input ground; Do not connect remote reset input to hazardous voltages!	yes, by applying 22-30VDC

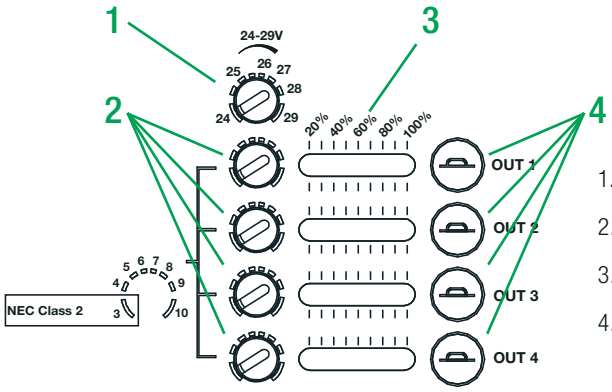
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FRONT PANEL ELEMENTS



1. Output Voltage Potentiometer (refer to **„OUTPUT VOLTAGE ADJUSTABILITY (1)“**)
2. Output Current Adjustability (refer to **„OUTPUT CURRENT LIMIT ADJUSTABILITY (2)“**)
3. LED Status Indicator (refer to **„LED STATUS INDICATOR (3)“**)
4. Control Button (refer to **„CONTROL BUTTON (4)“**)

CONTROL BUTTON (4)

The E-Fuse module provides advanced, individually controllable protection channels with user-configurable locking, protection modes, and current limiting functions.
All settings and status indications are managed via the front-panel push buttons and multi-color LED indicators.
The menu remains active for 8 seconds. Each button press resets the 8-second timeout.

NORMAL BUTTON OPERATION

1. Turn off an active channel (press corresponding channel button).
2. Turn a channel that was in latch-shutoff due to overcurrent back on (press corresponding channel button).

CHANNEL BUTTON LOCK / UNLOCK (Menu 1)

1. Press and hold the control button of **Channel 1** for 3 seconds. The middle two LEDs of each channel light up white, indicating entry into **Menu 1**.
2. Press the corresponding channel button to toggle the lock status of the selected output button and the corresponding potentiometers.
   The potentiometer setting may therefore differ from the target current setting after the channel was locked.
3. Wait 8 seconds for Menu 1 to close.

LED Indication	Meaning
Blinking white (0.5 s ON / 0.5 s OFF (repeat)	Button LOCKED
Steady (non-blinking white)	Button UNLOCKED

PROTECTION MODE SELECTION (Menu 2)

1. Press and hold the control button of **Channel 2** for 3 seconds. The middle two LEDs of each channel light up purple, indicating that **Menu 2** is active.
2. Press the corresponding channel button to toggle the protection mode of the selected output channel.
3. Wait 8 seconds for Menu 2 to close.

LED Indication	Meaning
Blinking purple (0.5 s ON / 0.5 s OFF (repeat)	LATCH-OFF mode
Steady (non-blinking purple)	HICCUP mode

OUTPUT VOLTAGE ADJUSTABILITY (1)

Output voltage is set by potentiometer. The selected voltage is common to all channels.
The adjustable range is 24V to 29VDC) and can be also adjusted in offline mode. Selectable voltage steps: 24V, 24.5V, 25V, 25.5V, 26V, 27V, 28V, 29VDC
Make sure that the maximum continuous output power will not be exceeded when trimming up.

OUTPUT CURRENT LIMIT ADJUSTABILITY (2)

The PSU offers 8 selectable current limit steps per channel.
At 24 V output, the adjustable range is 3 A to 10 A (1 A steps) and can be also adjusted in offline mode.
Each current limit step is indicated by a dedicated LED on the corresponding channel.
When the minimum current limit (3 A) is selected, the LED turns blue, confirming compliance with **NEC Class II** requirements.

NEC class II compliance:
When the output voltage is trimmed above 24 V, the maximum allowable output current is automatically reduced to maintain compliance with NEC Class II power limitations (maximum deliverable output power). A minimum of 72W output power remains guaranteed.

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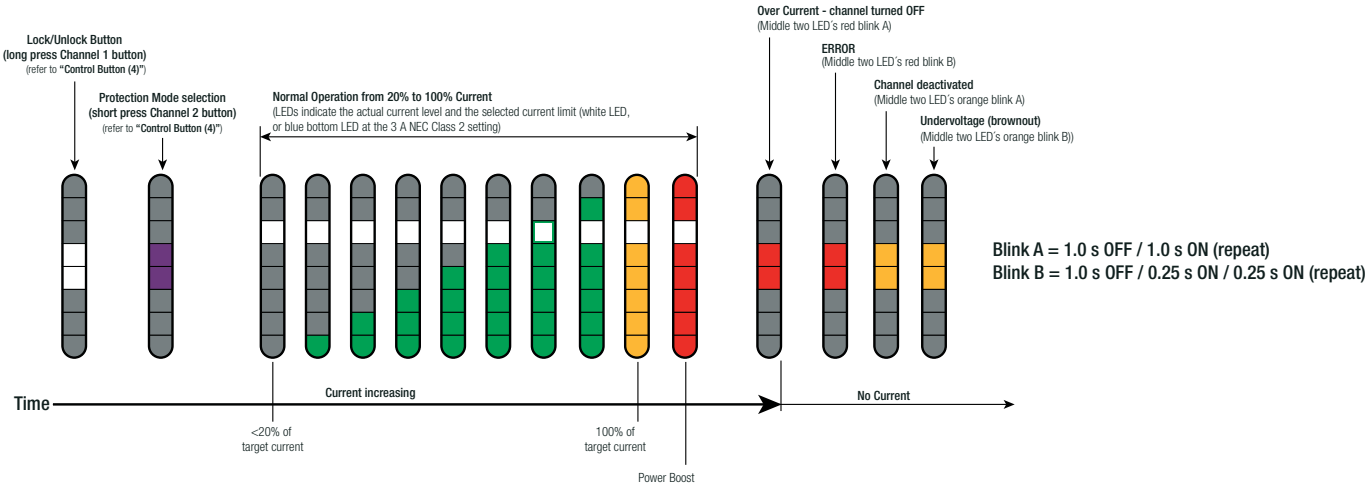
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LED STATUS INDICATOR (3)

The multi-color LED bar provides clear, real-time operating status for each channel:



Actual current: Colored LEDs indicate the actual current of 0-120% in relation to the set maximum current. In the picture above the target current is set to 8A.
Target current: One white LED indicates the selected current limit, which is set via the potentiometer. In the picture above, the target current is set to 8 A. At the 3 A current limit setting (NEC Class 2), the bottom LED lights blue instead of the white target current LED.
Power Boost: During Operation in >120% and <150% Target Current Level the device stays in Overcurrent for about 5s before the Overcurrent shutdown gets active. If the 150% margin is surpassed (e.g. a short) the over current shutdown will get active after around 220ms for currents >150% and 120ms for shorts.
Maximum current (Over Current): When actual current >120% target current (except during power boost), the two middle LEDs for the corresponding channel will flash red.
Channel deactivated: When the channel is deactivated, the two middle LEDs will flash orange.
Undervoltage: In the event of a brownout (undervoltage), the two middle LEDs light up orange, and the device attempts to automatically restart once the voltage is restored.

PROTECTIONS (measured @ T_{AMB}= 25°C, 3AC 400VAC full load and after warm-up unless otherwise stated)

Parameter	Type			Value
Internal Input Fuse	DC compliant			2x T5A, slow-blow
External Input Protection	3-phase circuit breaker with a minimum of 6A and a maximum of 16 A, characteristic B or C; or a circuit breaker for motor protection with a maximum of 16A, trip class 10			
Short Circuit Protection (SCP)				hiccup mode, auto recovery
Over Voltage Protection (OVP)				37.4VDC
Return Voltage Immunity	continuous			35VDC max.
	<5 min			38VDC max.
Absorbing Energy				2.6J
Over Voltage Category (OVC)				OVC II (5000m); OVC III (2000m)
Over Current Protection (OCP)	<5 sec			33.5A typ., hiccup mode, auto recovery
Over Current Limit Selection	Selectable via Potentiometer at each channel individually Current limit range: 30%-100% of nominal output current in 8 discrete steps			
Tripping Characteristics	at short circuit			120ms max.
	150% load			5s max.
Tripping Delay				115ms typ.
Class of Equipment				Class I with PE connection
Isolation Voltage (safety certified) (9)	tested for 1 minute	I/P to O/P		2.6kVAC / 3.7kVDC
		I/P to PE		1.6kVAC / 2.2kVDC
Isolation Voltage (tested by Recom) (9)	tested for 1 minute	7/8" connector type	I/P to O/P; I/P to PE	3.5kVAC / 5kVDC
		M12 connector type	I/P to O/P; I/P to PE	2.6kVAC / 3.7kVDC
Isolation Resistance	I/P to O/P			4.5MΩ min.
Insulation Grade				reinforced
Input/Output Separation (10)	-Vout internally connected to protective earth			PELV/ES1
Earth Leakage Current	480VAC/60Hz			0.42mA typ.

Note9: For repeat Hi-Pot testing, reduce the time and/or the test voltage.

Note10: SELV (no connection between -Vout and PE) output version available on request.

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ENVIRONMENTAL (measured @ T_{AMB}= 25°C, 3AC 400VAC full load and after warm-up unless otherwise stated)

Parameter	Condition		Value
Operating Ambient Temperature Range	@ natural convection (0.1m/s)	with derating	-40°C to +70°C
		without derating	refer to **„Derating Graph“**
Operating Altitude (11)			5000m
Operating Humidity			95% RH max.
Pollution Degree			PD3
IP Rating			IP65 and IP67
Shock	according to IEC 60068-2-27 Fa	non-operating (12)	15G/11ms, 3 times (positive/negative) in all axis
Vibration	according to IEC 60068-2-6 Fc	non-operating (12)	5 - 18.4Hz @ 3.5mm deflection 8.4 -150Hz @ 2G, 10 cycles /axis(min-max-min); 1 octave/min
MTBF	according to EN/IEC 61709 (SN29500)		342 x 10³ hours
Lifetime Expectancy (13)			refer to **„Table1: Lifetime Expectancy“**

Note11: Recognized by safety agency for safe operation up to 5000m. High altitude operation may impact the performance and lifetime

Note12: Functional test after shock/vibration tests

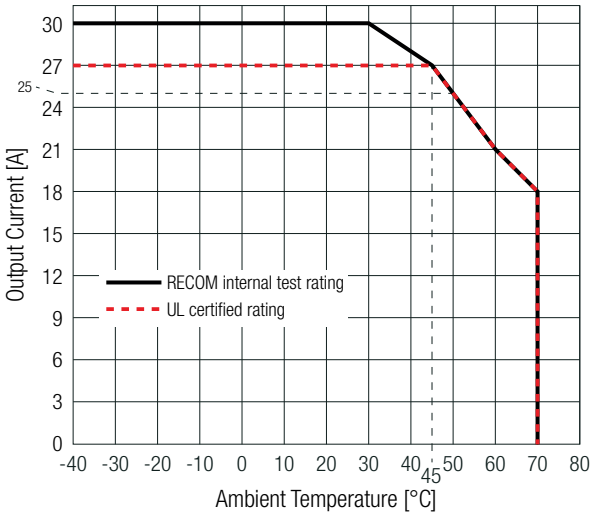
Table1: Lifetime Expectancy

Ambient Temperature	RACPRO1-DP-T720/24-4SP		
	250W	500W	720W
+20°C	597 x 10³ hrs.	195 x 10³ hrs.	55 x 10³ hrs.
+30°C	355 x 10³ hrs.	106 x 10³ hrs.	27 x 10³ hrs.
+40°C	176 x 10³ hrs.	52 x 10³ hrs.	-

Note13: Lifetime values are calculated for mounting with insulating sheet. Mounting on a cooling plate can improve thermal conditions and increase lifetime.

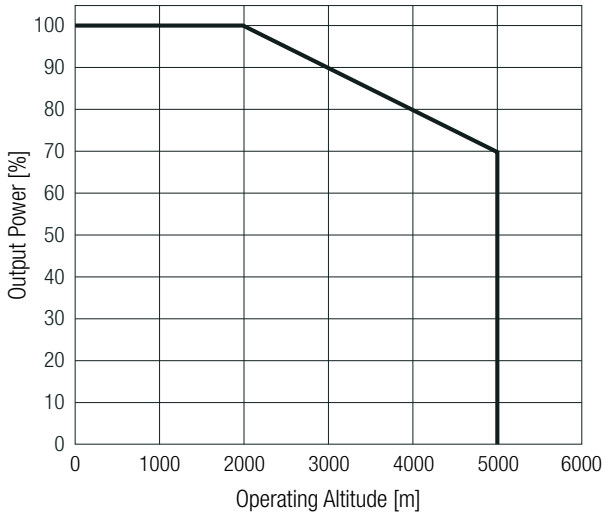
Derating Graph

(@ Chamber and natural convection 0.1m/s; standard mounting orientation)



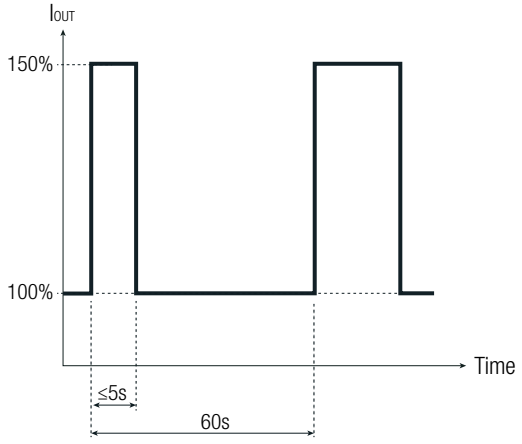
Altitude Derating

(for continuous operation)



Boost Power

(400V-480VAC or 500VDC, -40°C to +70°C)



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SAFETY & CERTIFICATIONS

Certificate Type (Safety)	Report Number	Standard
Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements (CB)	ET2025020 453A0	IEC61010-1:2010+A1:2016 3rd Edition
Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements		EN61010-1:2010+A1:2019
Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements	E550315-Vol1 -Sec2	UL61010-1:2012 3rd Edition CAN/CSA-C22.2 No. 61010-1-12 3rd Edition
Electrical Equipment For Measurement, Control, and Laboratory Use; Part 2-201: Particular requirements for control equipment (CB)	ET2026005 461A0	IEC61010-2-201:2017 2nd Edition
Electrical Equipment For Measurement, Control, and Laboratory Use; Part 2-201: Particular requirements for control equipment		EN IEC 61010-2-201:2018
Electrical Equipment For Measurement, Control, and Laboratory Use; Part 2-201: Particular requirements for control equipment	E550315-Vol1 -Sec2	UL61010-2-201:2018 2nd Edition CAN/CSA-C22.2 No. 61010-2-201:28-02-01 2nd Edition
Class 2 Power Units	4792458450	UL1310 7th Edition
Power Supplies With Extra-Low-Voltage Class 2 Outputs		CAN/CSA-C22.2 No. 223 3rd Edition
RoHS2		RoHS 2011/65/EU + AM2015/863

EMC Compliance according to IEC/EN61000-6-4/6-2	Condition			Standard / Criterion
Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments				IEC/EN61000-6-2:2019
Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for equipment in residential environments				IEC/EN 61000-6-3:2021, Class B
ESD Electrostatic discharge immunity test	Air: ±2, 4, 8, 15kV Contact: ±2, 4, 6, 8kV			IEC61000-4-2:2008, Criteria A EN61000-4-2:2009, Criteria A
Radiated, radio-frequency, electromagnetic field immunity test	10V/m (80-1000MHz)			EN IEC 61000-4-3:2020, Criteria A
Fast Transient and Burst Immunity	AC Power Port: ±0.5, 1, 2, 4kV DC-Output Port: ±0.5, 1, 2, 4kV Signal Contact: ±0.5, 1, 2kV			IEC/EN61000-4-4:2012, Criteria A
Surge Immunity	AC-Power Port:	M12 connector	L1-L2, L1-L3, L2-L3: ±0.5, 1, 2.5kV L1-PE, L2-PE, L3-PE: ±0.5, 1, 2, 4kV	IEC/EN61000-4-5:2014+A1:2017, Criteria A
		7/8" connector	L1-L2, L1-L3, L2-L3: ±0.5, 1, 2.5kV L1-PE, L2-PE, L3-PE: ±0.5, 1, 2, 6kV	
	DC-Output Port:		Vout(+) - Vout(-): ±0.5, 1kV PELV: Vout(+/-) - PE: ±0.5, 1, 2kV	
Immunity to conducted disturbances, induced by radio-frequency fields	20Vrms (0.15-80MHz)			IEC61000-4-6:2013, Criteria A EN61000-4-6:2014, Criteria A
Voltage Dips	400VAC, 50Hz		100%: 0.5, 1, 5P 70%: 0.5, 1, 5, 10, 25, 50P	EN IEC 61000-4-11:2020, Criteria A
			40%: 5, 10, 25, 50, 100, 250P 30%: 5, 10, 25, 50, 100, 250P	EN IEC 61000-4-11:2020, Criteria B
Voltage Interruptions	400VAC, 50Hz		100%: 250P	EN IEC 61000-4-11:2020, Criteria C
Limits of Harmonic Current Emissions				EN IEC 61000-3-2:2019
Limits of Voltage Fluctuations & Flicker				EN61000-3-3:2013

DIMENSION & PHYSICAL CHARACTERISTICS

Parameter	Type	Value
Material	chassis	aluminum alloy
	cover	polycarbonate
Dimension (LxWxH)	without connector	192 x 177 x 60mm, (7.6 x 7 x 2.4 inch)
Weight	with M12 connector	1520g typ., (3.35 lbs)
	with 7/8" connector	1590g typ., (3.5 lbs)

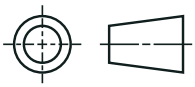
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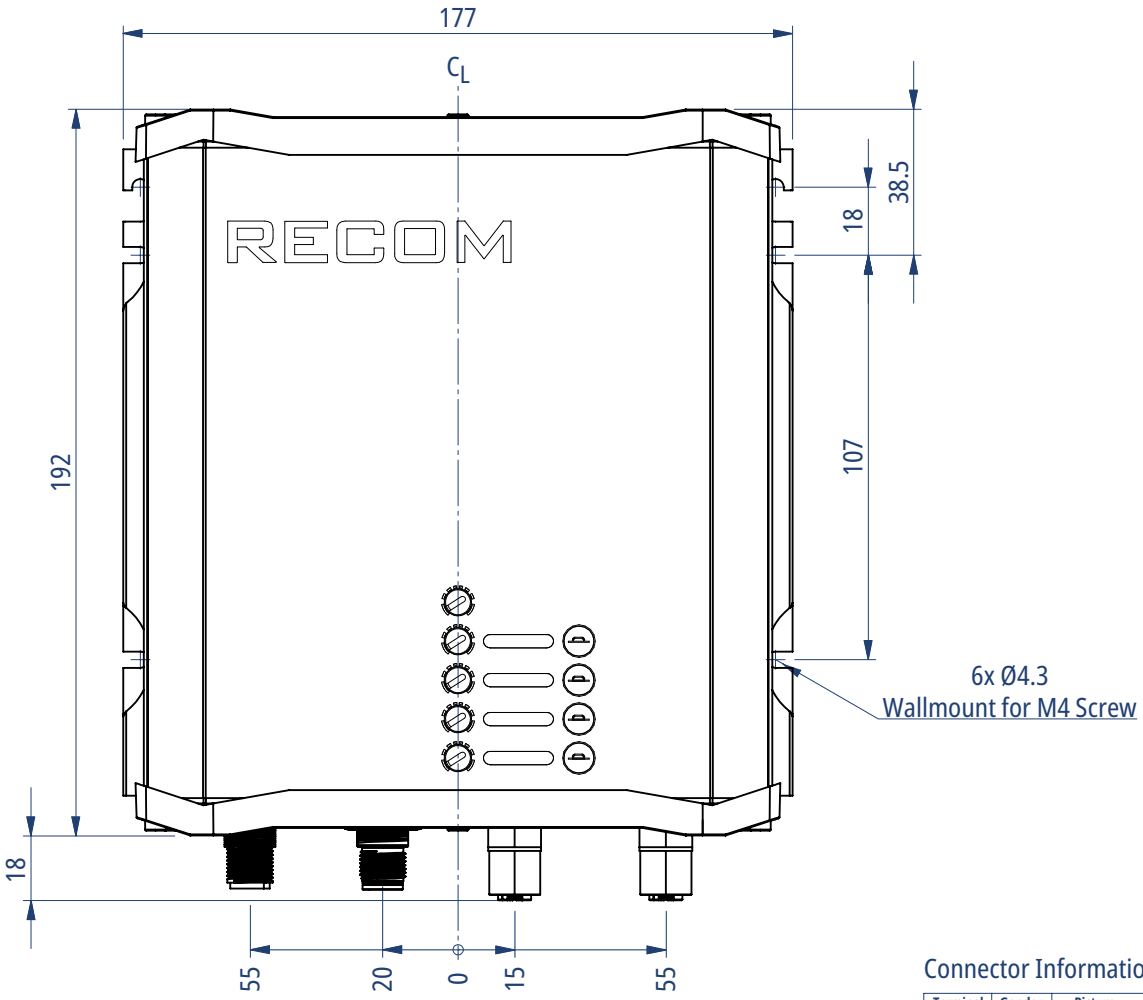
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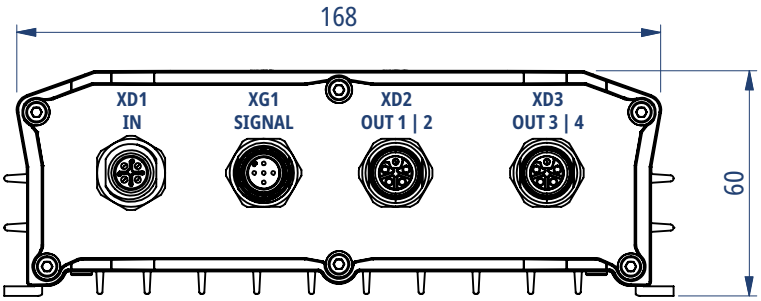
720W ◊ Input: 400-480VAC nom. / 500VDC nom.

DIMENSION & PHYSICAL CHARACTERISTICS

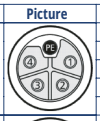
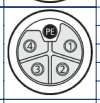
Dimension Drawing **RACPRO1-DP-T720-4SP/24/10A/M12 (mm)**







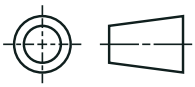
Connector Information

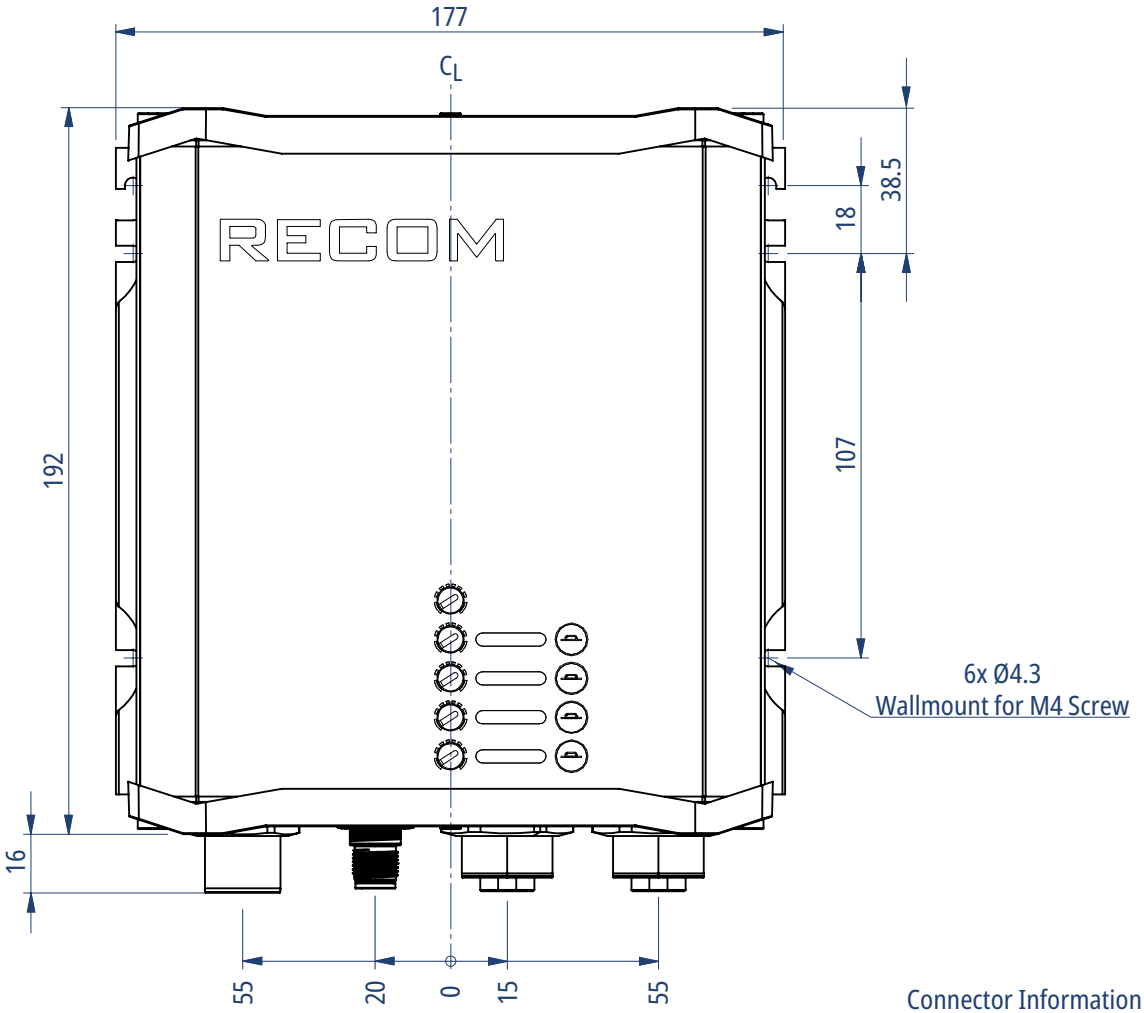
Terminal	Gender	Picture	Pin	Connection
XD2 OUT 1 | 2	M12 L Female		1	24 VDC OUT 1
			2	GND OUT 2
			3	GND OUT 1
			4	24 VDC OUT 2
			PE	PE
XD3 OUT 3 | 4	M12 L Female		1	24 VDC OUT 3
			2	GND OUT 4
			3	GND OUT 3
			4	24 VDC OUT 4
			PE	PE
XD1 IN	M12 S Male		1	L1
			2	L2
			3	L3
			4	PE
XG1 SIGNAL	M12 A Male		1	Relay connection
			2	REMOTE RESET
			3	GND RMT RST
			4	Relay connection
			5	not connected

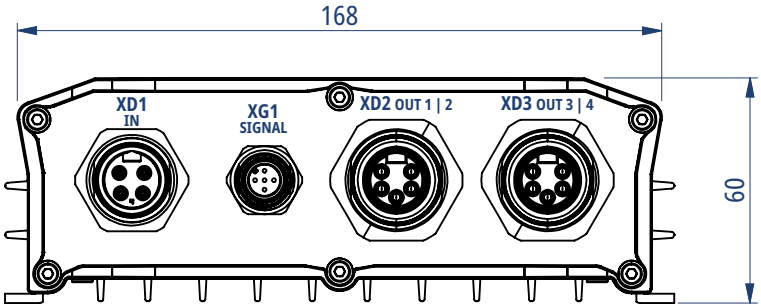
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DIMENSION & PHYSICAL CHARACTERISTICS

Dimension Drawing **RACPRO1-DP-T720-4SP/24/10A/S78 (mm)**







Connector Information

Terminal	Gender	Picture	Pin	Connection
XD2 OUT 1 | 2	7/8" Female		1	GND OUT 2
			2	GND OUT 1
			3	PE
			4	24 VDC OUT 1
			5	24 VDC OUT 2
XD3 OUT 3 | 4	7/8" Female		1	GND OUT 4
			2	GND OUT 3
			3	PE
			4	24 VDC OUT 3
			5	24 VDC OUT 4
XD1 IN	7/8" Male		1	L1
			2	L2
			3	L3
			PE	PE
XG1 SIGNAL	M12 A Male		1	Relay connection
			2	REMOTE RESET
			3	GND RMT RST
			4	Relay connection
			5	not connected

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RACPRO1-DP-T720-4SP Series ◊ PSU with integrated e-Fuse

720W ◊ Input: 400-480VAC nom. / 500VDC nom.

RECOM AC/DC Converter

INSTALLATION & APPLICATION

Installation Instructions

Install the device on a sufficiently large, flat and stable surface.

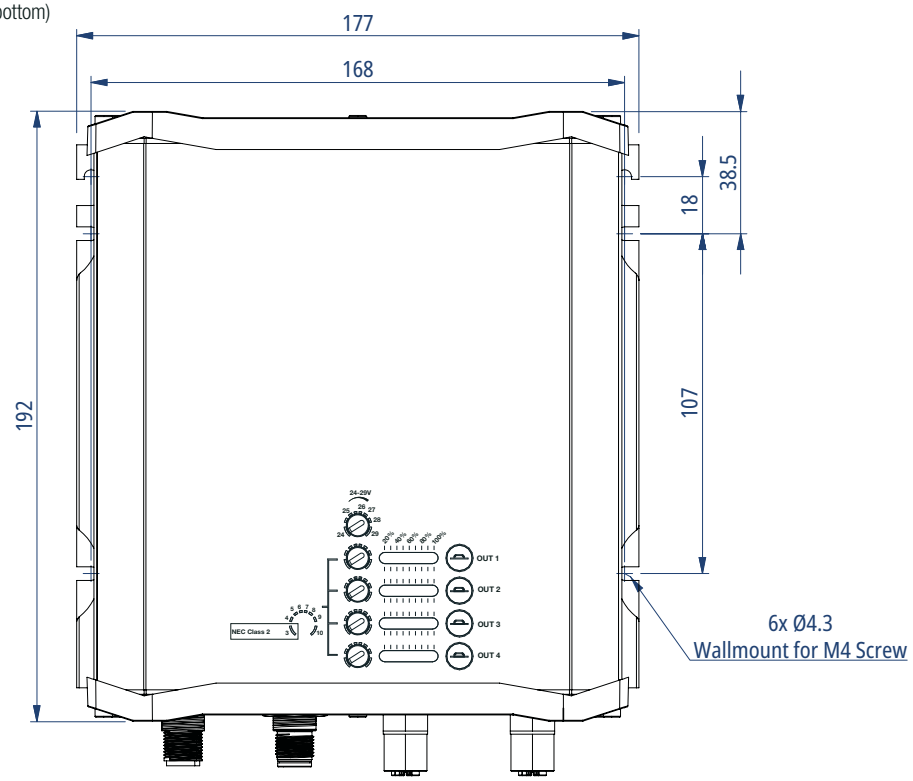
To guarantee sufficient convection cooling, maintain a distance of 50 mm above and below the device and 10 mm to the left and right.

For vertical (wall) mounting the device should be installed with the connectors on the bottom (= standard orientation).

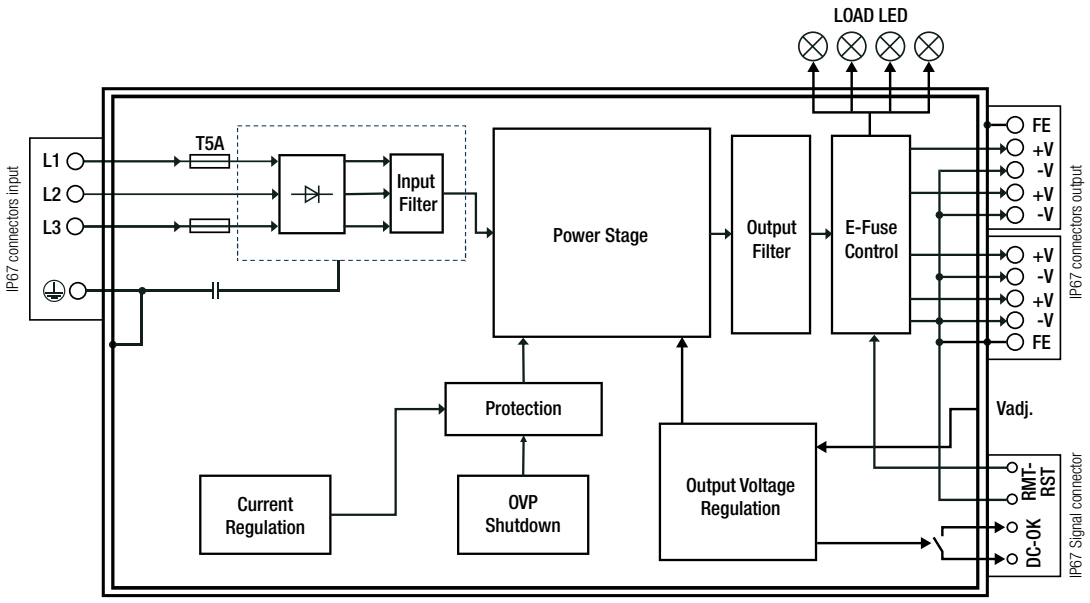
Recommended screw size is M4. It is recommended to use 4 screws, two on top and two on bottom mounting holes.

Standard Orientation

(Wall mounted, connectors on bottom)



BLOCK DIAGRAM



PELV-system

The DC output is provided as a PELV output with PE internally connected to –VOUT.

The output is galvanically isolated from the input by reinforced insulation.

The output connectors distribute one common DC output and are not galvanically isolated from each other.

Do not connect hazardous voltages to the output or to the DC-OK signal contacts.

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PACKAGING INFORMATION

Parameter	Type	Value
Packaging Dimension (LxWxH)	cardboard box	260.0 x 245.0 x 70.0mm
Packaging Quantity		1 pc
Storage Temperature Range		-40°C to +85°C
Storage Humidity		95% max.

The product information and specifications may be subject to changes even without prior written notice.The product has been designed for various applications; its suitability lies in the responsibility of each customer. The products are not authorized for use in safety-critical applications without RECOM's explicit written consent. A safety-critical application is an application where a failure may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The applicant shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.

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