Technical Data Sheet

RACM420-K Series ◊ AC/DC Power Supply

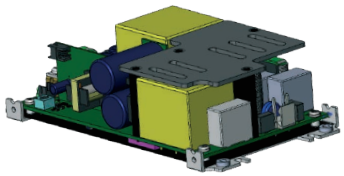
420W (550W/5s) ◊ Input: 100V-240VAC

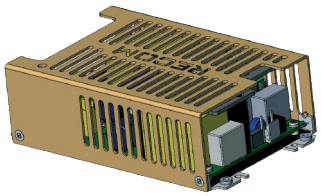
RECOM
AC/DC Converter

FEATURES

- 270W/400W convection cooled power
- 550W boost power for 5s
- OVCIII up to 3000m altitude; OVCII to 5000m
- additional outputs: 5VSB & FAN
- Signals: AC-fail; CTRL ON/OFF; sensing
- 3 year warranty

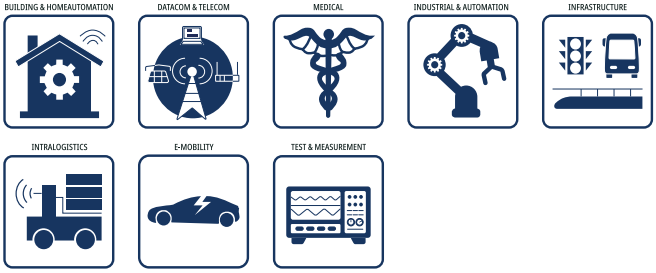
pictures for reference only!





Open frame: 145.8 x 83.6 x 39.0mm (5.74 x 3.29 x 1.54 inch)
Enclosed: 1145.8 x 85.6 x 43.5mm (5.74 x 3.37 x 1.71 inch)

APPLICATIONS



SAFETY & EMC

RoHS² compliant 10 from 10 | Reach compliant | CE | cULus E224736 | IECEE CB SCHEME | HOUSEHOLD CERTIFIED EN-60335-1

DESCRIPTION

SELECTION GUIDE

Part Number	Operating Input Range [VAC]	Output Voltage nom. [VDC]	max. Output Current (1) [A]	Efficiency (2) typ. [%]	rated Output Power [W]
RACM420-12SK (3,4)	80-264	12	35	92	420W
RACM420-15SK (3,4)	80-264	15	28	92	420W
RACM420-24SK (3,4)	80-264	24	17.5	93	420W
RACM420-28SK (3,4)	80-264	28	15	94	420W
RACM420-36SK (3,4)	80-264	36	11.66	94	420W
RACM420-48SK (3,4)	80-264	48	8.75	94	420W
RACM420-56SK (3,4)	80-264	56	7.5	94	420W

Note1: Refer to "**„Peak Load Capability“.**
Note2: Efficiency is tested at nominal input and rated load at +25°C ambient.

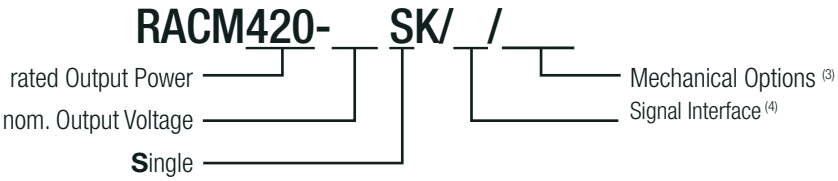
copyright © RECOM Power GmbH, all rights reserved

RACM420-K Series ◊ AC/DC Power Supply

420W (550W/5s) ◊ Input: 100V-240VAC

RECOM AC/DC Converter

MODEL NUMBERING



Note3: "/OF"= 5.74" x 3.29" x 1.54" open frame version
"/ENC"= 5.74" x 3.37" x 1.71" enclosed version
"/ONB"= open naked board (no baseplate)
Note4: "/SI"= signal interface dau-board integrated

ORDERING INFORMATION

Model	Output Voltage	Package Type		
		"/OF" & "/SI/OF models	"/ENC" & "/SI/ENC models	"/ONB" & "/SI/ONB models
RACM420-12SK	12VDC	y	y	on request
RACM420-15SK	15VDC	y	y	on request
RACM420-24SK	24VDC	y	y	on request
RACM420-28SK	28VDC	y	y	on request
RACM420-36SK	36VDC	y	y	on request
RACM420-48SK	48VDC	y	y	on request
RACM420-56SK	56VDC	y	y	on request

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

BASIC CHARACTERISTICS (measured @ T_{AMB}= 25°C, nom. V_{IN}, full load and after warm-up unless otherwise stated)

Parameter	Condition			Min.	Typ.	Max.
Nominal Input Voltage	50/60Hz			100VAC		240VAC
Operating Range (5)	47-63Hz			80VAC		264VAC
Input Current	12, 15, 24, 28Vout					6A
	36, 48 & 56Vout					8A
Inrush Current	cold start at 25°C	115VAC	12, 15, 28, 36 & 48Vout			35A
			24 & 56Vout			40A
		230VAC	12, 15, 28, 36, 48 & 56Vout			70A
			24Vout			80A
No Load Power Consumption						1.5W
Ecodesign Standby Mode Use (Available output power for stated input power)	115/230/277VAC		P_{IN}= 0.5W		0.3W	
			P_{IN}= 1.0W		0.8W	
			P_{IN}= 2.0W		1.7W	
Input Frequency Range	AC input			47Hz		63Hz
Minimum Load				0%		
Power Factor	230VAC				0.99	
Start-up time	main & fan output		@full load, 230VAC		350ms	
	5VSB		only for "/SI" models		55ms	
Rise time	main & fan output		@full load, 230VAC		30ms	
	5VSB		only for "/SI" models		40ms	
Hold-up time	main & fan output		@full load, 230VAC	10ms		
	5VSB		only for "/SI" models		1.35s	
Output Ripple and Noise (6)	20MHz BW, T_{AMB}= +25°C		12, 15 & 28Vout			120mVp-p
			36, 48 & 56Vout			200mVp-p

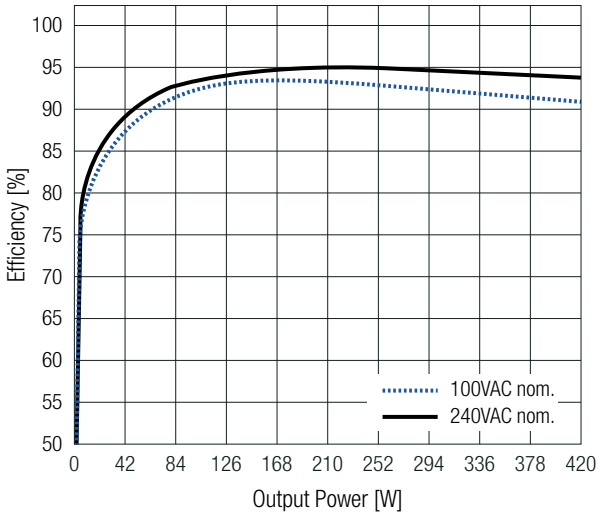
Note5: The products were submitted to all safety files at AC-operation (90V-305VAC)
Note6: Measurements are made with a 0.1µF MLCC & 10µF E-cap in parallel across output (low ESR).
The test setup can have an impact on ripple noise values (placement of scope probe, capacitors, it's specifications, wires, PCB tracks, distances, etc.)

copyright © RECOM Power GmbH, all rights reserved

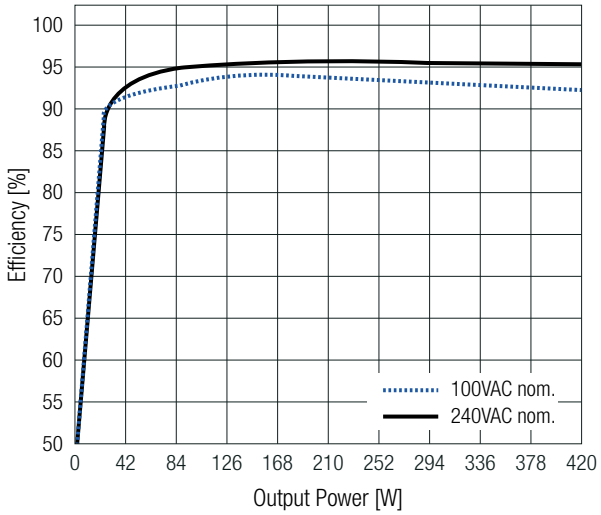
BASIC CHARACTERISTICS (measured @ T_{AMB}= 25°C, nom. V_{IN}, full load and after warm-up unless otherwise stated)

Efficiency vs Output Power

12Vout & 15Vout Versions



others



ADDITIONAL FEATURES (ONLY VALID FOR "/SI" VERSIONS)

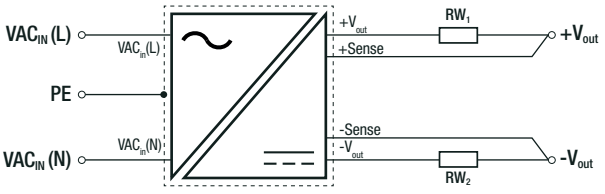
Parameter	Condition		Min.	Typ.	Max.
Output Voltage Adjustability (7)				±5%	
Standby Power	only for "/SI" models	230VAC, 5VSB un-loaded			1W
Soft Start Time		start with ON/OFF CTRL		55ms	
Input Current of CTRL Pin		$V_{ON/OFF}$= 3V		1mA	
ON/OFF CTRL		mains and fan output ON			open or 2.0V < $V_{ON/OFF}$ < 5V
		mains and fan output OFF			short to SGND or 0V < $V_{ON/OFF}$ <1V
AC_Fail					refer to **„AC_Fail"**
DC ON LED		LED = green			normal working mode
		LED = off			no operation or failure
Remote Sense		stay unconnected when not used			refer to **„Remote Sense"**

Note7: By trimming up, decrease output current to avoid exceeding rated output power. By trimming down, do not exceed maximum continuous output current. If enclosed version is used, please remove cover, to use trim function.

AC_Fail

The AC FAIL signal is referenced to SGND. A 10 kΩ pull-up resistor connected to the +5 V output of CON4 is recommended.
When the AC input voltage exceeds typically 85 VAC RMS, a square-wave signal can be measured between the AC FAIL pin and SGND using an oscilloscope.
When the AC input voltage falls below typically 70 VAC RMS, no signal is present at the AC FAIL pin.

Remote Sense



FAN OUTPUT (MEASURED @ TAMB= 25°C, NOM. VIN, FULL LOAD AND AFTER WARM-UP UNLESS OTHERWISE STATED)

Parameter	Condition	Min.	Typ.	Max.
Fan Output Voltage				12VDC
Fan Output Current (8)				0.5A
Fan Output Accuracy				±11.0%
Short Circuit Protection (SCP)				none
Over Current Protection (OCP)				none

Note8: For the normal operation of fan output, mains output needs minimum load 30W. Fan output is not allowed to be loaded if mains output has no load.

copyright © RECOM Power GmbH, all rights reserved

5VSB OUTPUT [9] (MEASURED @ TAMB= 25°C, NOM. VIN, FULL LOAD AND AFTER WARM-UP UNLESS OTHERWISE STATED)

Parameter	Condition	Min.	Typ.	Max.
Standby Output Voltage	always on		5VDC	
Standby Output Current				1A
Max. Output Power				5W
Short Circuit Protection (SCP)	below 100mΩ			hiccup mode, auto recovery
Over Voltage Protection (OVP)				<8VDC, hiccup mode, auto recovery
Over Current Protection (OCP)				<2A, hiccup mode, auto recovery
Over Temperature Protection (OTP)				restart after cooling down

Note9: There is no galvanic isolation between AUX GND and Main Output GND. Regulations for 5VSB Output are stated under „Regulations“

REGULATIONS (measured @ T_{AMB}= 25°C, nom. V_{IN}, full load and after warm-up unless otherwise stated)

Parameter	Condition		Value
Output Accuracy	12, 15, 24 & 28Vout		±2.5% max.
	36Vout		±3.0% max.
	48 & 56Vout		±2% max.
Line Regulation	12, 15, 24 & 28Vout		±1.0% max.
	36, 48 & 56Vout		±0.5% max.
Load Regulation [10]	12, 15, 24 & 28Vout		2.0% max.
	36, 48 & 56Vout		1.0% max.
Transient Response	10%-100%-10% load change steps	12 & 15Vout	500mV max.
		24 & 28Vout	1000mV max.
		36, 48 & 56Vout	1200mV max.
	recovery time	12, 15 & 24Vout	3ms typ.
		28 & 36Vout	2ms typ.
		48 & 56Vout	1ms typ.

Note10: Operation below 10% load will not harm the converter, but specifications may not be met.

PROTECTIONS (measured @ T_{AMB}= 25°C, nom. V_{IN}, full load and after warm-up unless otherwise stated)

Parameter	Type			Value
Internal Input Fuse	dual-fusing (line & neutral)			slow blow type
Short Circuit Protection (SCP)	below 100mΩ			hiccup mode, auto recovery
Over Voltage Protection (OVP)				110%-140% of nom. V_{OUT}, hiccup mode, auto recovery
Over Voltage Category (OVC)	according to 62368-1, 60335-1, 61558			OVC II (5000m)
	according to 60601-1			OVC II (4000m)
	according to 62368-1, 60335-1, 61558			OVC III (2000m)
Over Current Protection (OCP)				<160% of max. rated I_{OUT}, hiccup mode, auto recovery
Over Temperature Protection (OTP)				restart after cooling down
Class of Equipment				Class I and Class II
Isolation Voltage [11]	I/P to O/P	1 minute	according to 61558	3k95VAC
			according to 60335-1	3kVAC
			according to 62368-1	6kVDC
Isolation Resistance	I/P to O/P, V_{ISO}=500VDC			1GΩ min.
Isolation Capacitance				100pF max.
Insulation Grade				reinforced
Means of Protection				2 MOPP
Leakage Current	Input to output 4KVAC , 1min			<5mA
	Output to GND, 1,5KVAC, 1,min			<3mA
	Output to GND, 1,5KVAC, 1,min			<3mA

Note11: For repeat Hi-Pot testing, reduce the time and/or the test voltage.

copyright © RECOM Power GmbH, all rights reserved
www.recom-power.com

RACM420-K Series ◊ AC/DC Power Supply

420W (550W/5s) ◊ Input: 100V-240VAC

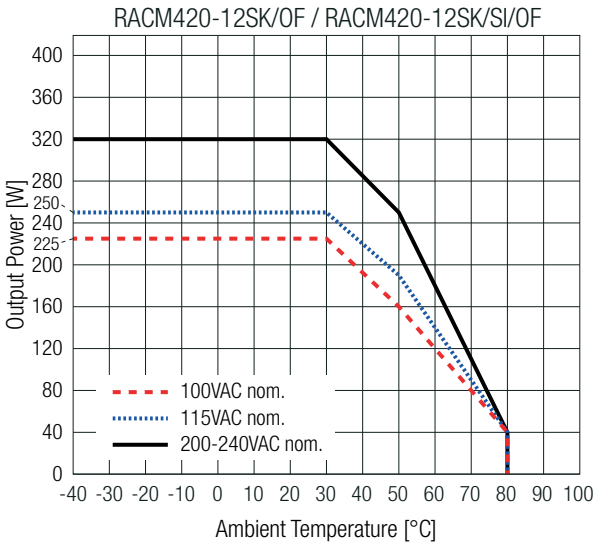
RECOM AC/DC Converter

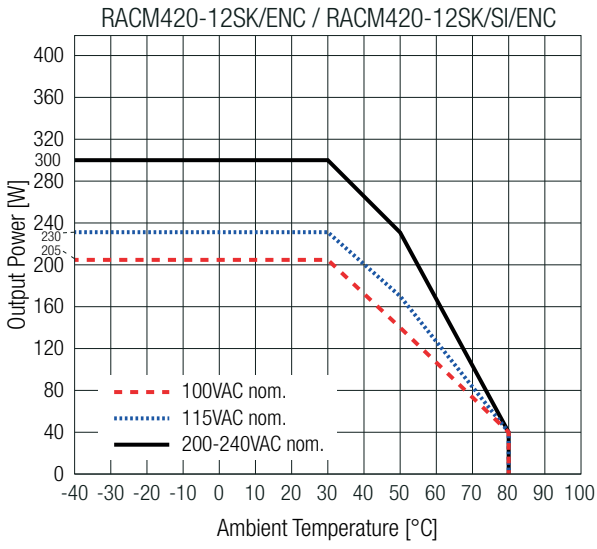
ENVIRONMENTAL (measured @ T_{AMB}= 25°C, nom. V_{IN}, full load and after warm-up unless otherwise stated)

Parameter	Condition		Value
Operating Ambient Temperature Range	15Vout		-30°C to +75°C
	others		-30°C to +80°C
Operating Altitude (12)	according to 62368-1, 60335-1, 61558		5000m (OVC II)
	according to 60601-1		4000m (OVC II)
	according to 62368-1, 60335-1, 61558		2000m (OVC III)
Operating Humidity	non-condensing		90% RH typ.
Pollution Degree			PD2
Vibration			half Sine 100m/s², 11ms duration, 100 pulse per direction
Shock			5-500Hz, 20m/s² 15 min for each axis
MTBF			TBD
Design Lifetime	12Vout		TBD
	15Vout		
	24 & 28Vout		
	36 & 56Vout		
	48Vout		

Note12: Recognized by safety agency for safe operation up to 5000m. High altitude operation may impact the performance and lifetime. Please contact RECOM tech support for advice.

Convection cooled rating @ still air <0.1m/s



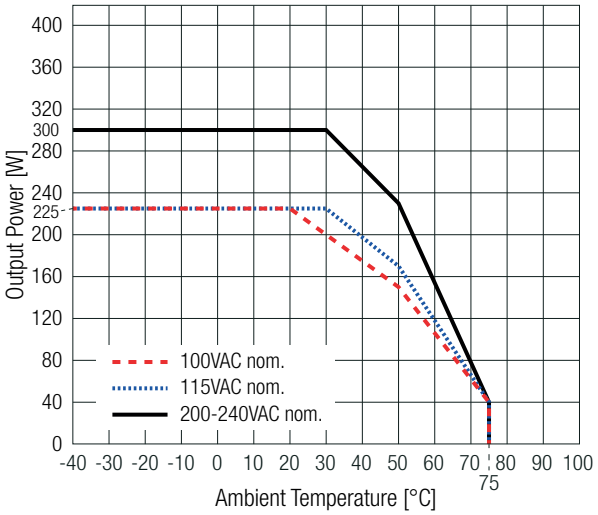


copyright © RECOM Power GmbH, all rights reserved

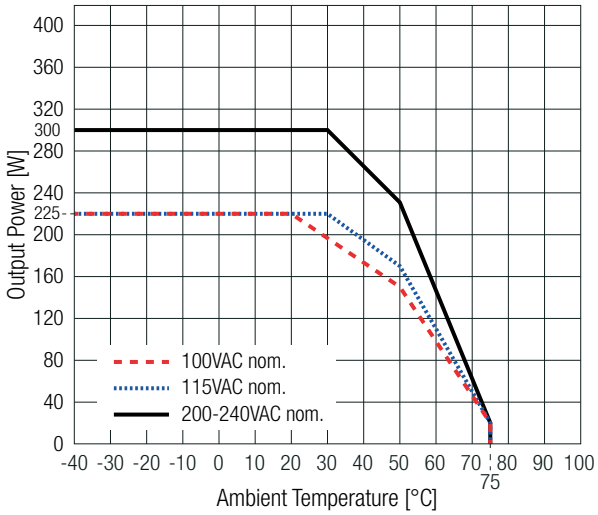
ENVIRONMENTAL (measured @ T_{AMB}= 25°C, nom. V_{IN}, full load and after warm-up unless otherwise stated)

Convection cooled rating @ still air <0.1m/s

RACM420-15SK/OF / RACM420-15SK/SI/OF

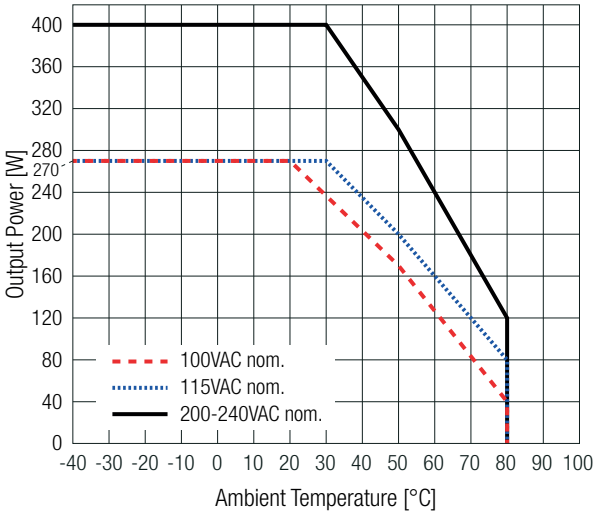


RACM420-15SK/ENC / RACM420-15SK/SI/ENC

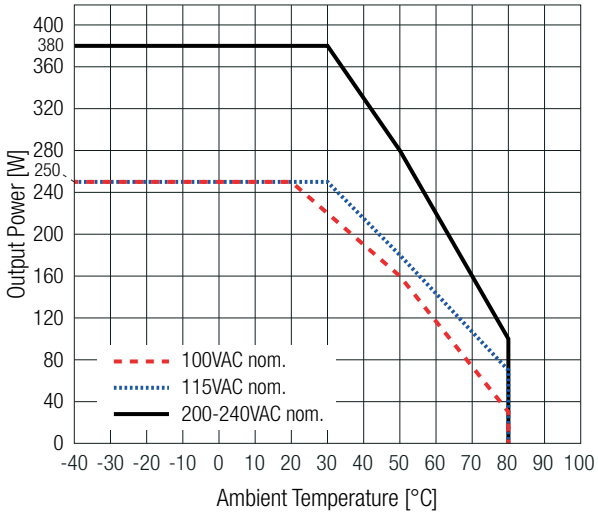


Convection cooled rating @ still air <0.1m/s

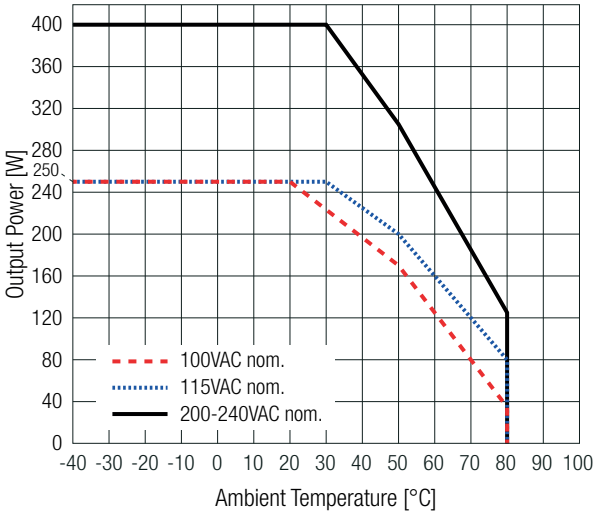
RACM420-24SK/OF, RACM420-24SK/SI/OF
RACM420-28SK/OF, RACM420-28SK/SI/OF



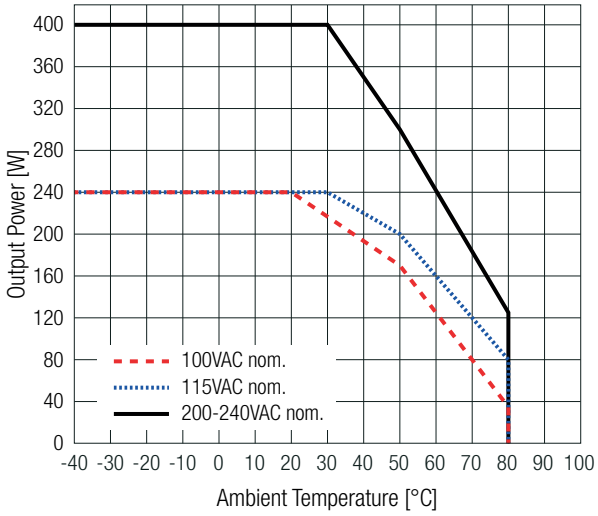
RACM420-24SK/ENC, RACM420-24SK/SI/ENC
RACM420-28SK/ENC, RACM420-28SK/SI/ENC



RACM420-36,48,56SK/OF
RACM420-36,48,56SK/SI/OF
RACM420-36,48,56SK/ENC



RACM420-36,48,56SK/ENC

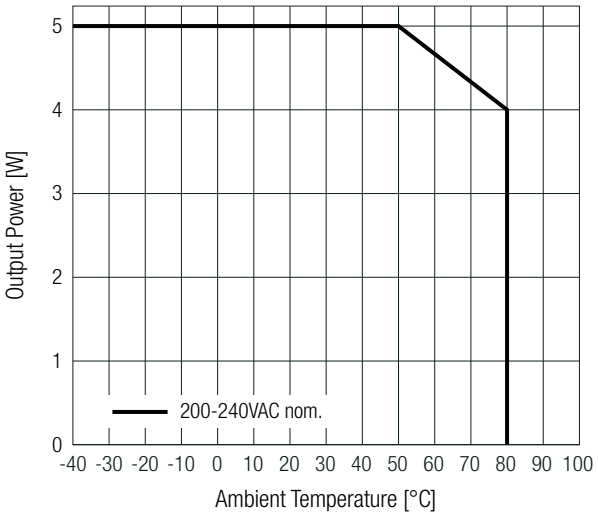


copyright © RECOM Power GmbH, all rights reserved

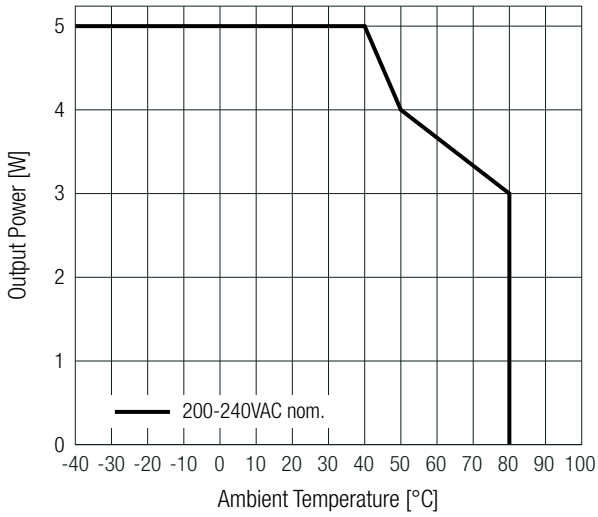
ENVIRONMENTAL (measured @ T_{AMB}= 25°C, nom. V_{IN}, full load and after warm-up unless otherwise stated)

Convection cooled rating @ still air <0.1m/s for 5VSB Output

RACM420-K/SI/OF

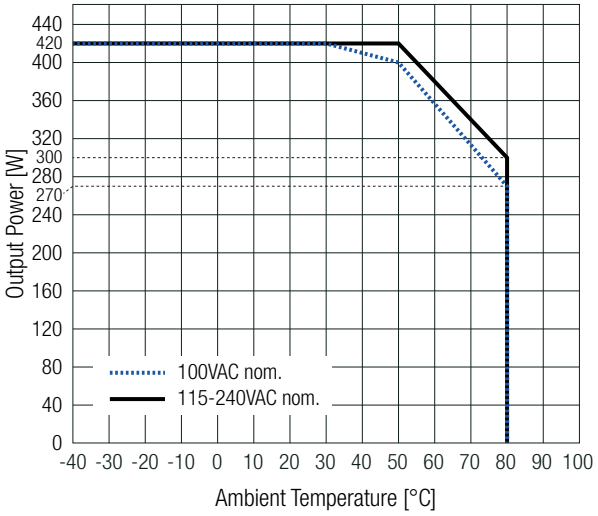


RACM420-K/SI/ENC

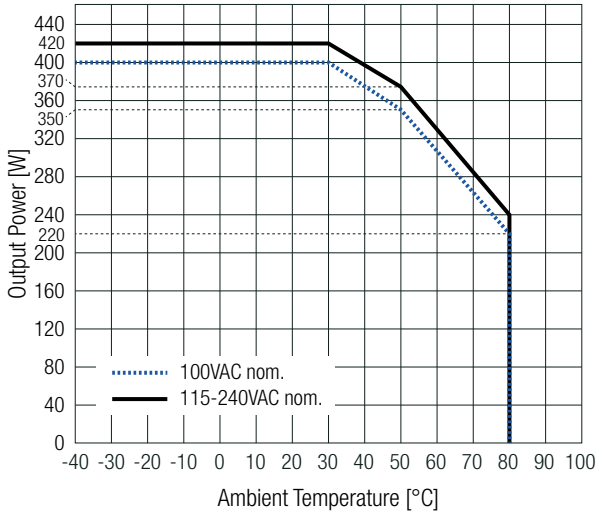


Air flow rating @ 2.5m/s

RACM420-K/OF / RACM420-K/SI/OF



RACM420-K/ENC / RACM420-K/SI/ENC



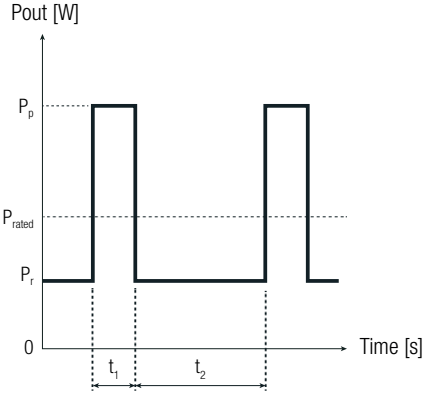
PEAK LOAD CAPABILITY

Peak Load calculation for recurrent dynamic loading (at natural convection 0.1m/s)

Parameters	Units	RACM420-12SK	all others
P_{rated}= rated output power	[W]	refer to Graphs above	
P_P= peak output power	[W]	500W max.	550W max.
P_r= recovery output power	[W]	use calculation	
t_1= peak time set	[s]	5s max.	
t_2= recovery time	[s]	min. 11 x t_1	

Calculation:

$$P_r = \frac{P_{rated} \times (t_1 + t_2) - (P_P \times t_1)}{t_2}$$



Practical Example (RACM420-24SK for still air convection):

Take the RACM420-24SK at 240VAC input voltage and T_{AMB}= 50°C, with still air convection.

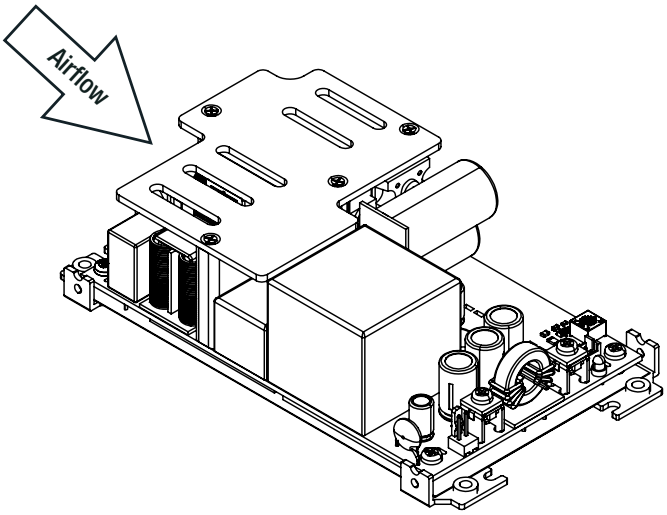
P_P = 550W
P_{rated} = 300W
t_1 = 4s
t_2 = 11 x t_1

$$P_r = \frac{300 \times (4 + 44) - (550 \times 4)}{44} = \underline{277W}$$

copyright © RECOM Power GmbH, all rights reserved

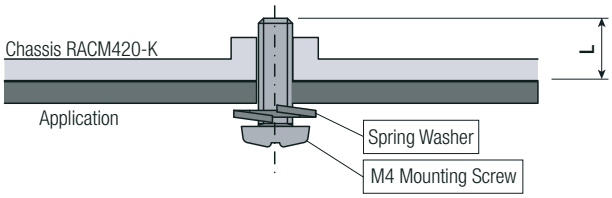
INSTALLATION & APPLICATION

Preferred airflow direction
valid for "/OF" and /ENC"



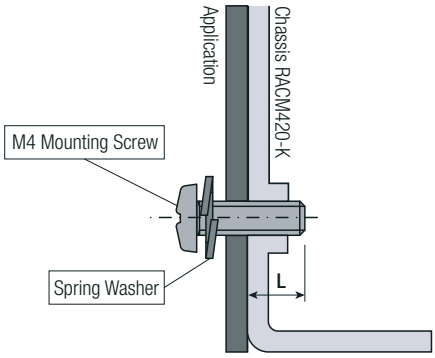
Mounting Equipment

Baseplate Mounting



Recommended mounting tightening torque= 1.1Nm.
L= 3mm min. / 5mm max.

Side Mounting



Recommended mounting tightening torque= 1.1Nm.
L= 3mm min. / 5mm max.

SAFETY & CERTIFICATIONS

Certificate Type (Safety)	Report Number	Standard
Audio/Video, information and communication technology equipment - Part1: Safety requirements 4th Edition	pending	UL62368-1 4th Edition
		CAN/CSA-C22.2 No. 62368-1 4th Edition
Audio/Video, information and communication technology equipment - Part1: Safety requirements 4th Edition	25120800901	IEC62368-1:2023 4th Edition
		EN IEC 62368-1:2024 + A11:2024
Medical electrical equipment Part 1: General requirements for basic safety and essential performance	E511305-D6009-UL	ANSI/AAMI ES60601-1:2005 + A2:2021
		CAN/CSA-C22.2 No. 60601-1:14 Edition 3.2
Medical electrical equipment Part 1: General requirements for basic safety and essential performance	25120800801	IEC60601-1:2005 + AM2:2020 Edition 3.2
Household and similar electrical appliances – Safety – Part 1: General requirements	64110250870901	IEC60335-1:2020 6th Edition
		EN60335-1:2023 + A11:2023
Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure		EN62233:2008
Safety of power transformers, power supplies, reactors and similar products for supply voltages up to 1100 V 3rd Edition	085-250870801-000	IEC61558-1:2017 3rd Edition
		EN IEC 61558-1:2019
Safety of power transformers, power supplies, reactors and similar products for supply voltages up to 1100 V Part 2: Particular requirements		IEC61558-2-16:2021 2nd Edition
		EN IEC 61558-2-16:2025
RoHS2		RoHS-2011/65/EU + AM-2015/863

copyright © RECOM Power GmbH, all rights reserved
www.recom-power.com

SAFETY & CERTIFICATIONS

EMC Compliance according to EN55032	Condition	Standard
Electromagnetic compatibility of multimedia equipment – Emission Requirements		EN55032:2015 + A11:2020
EMC Compliance according to EN61204-3	**Condition**	**Standard**
Low voltage power supplies, d.c. output Part 3: Electromagnetic compatibility (EMC)		EN IEC 61204-3:2018
ESD Electrostatic discharge immunity test	Contact: ±4kV	IEC61000-4-2:2008, Criteria A EN61000-4-2:2009, Criteria A
Radiated, radio-frequency, electromagnetic field immunity test	10V/m (80-1000MHz), 3V/m (1400-2000MHz), 1V/m (2000-2700MHz)	IEC/EN61000-4-3:2006 + A2:2010, Criteria A
Fast Transient and Burst Immunity	AC Port: L, N, L-N: ±2kV	IEC/EN61000-4-4:2012, Criteria A
Surge Immunity	AC Pot: L-N: ±0.5, 1, 2kV L-PE, N-PE: ±1, 2, 4kV	IEC/EN61000-4-5:2014 + A1:2017, Criteria A
Immunity to conducted disturbances, induced by radio-frequency fields	10Vrms (0.15-80MHz)	IEC61000-4-6:2013, Criteria A EN61000-4-6:2014, Criteria A
Power Magnetic Field Immunity	30A/m	IEC61000-4-8:2009, Criteria A EN61000-4-8:2010, Criteria A
Voltage Dips	100% (0.5P, 1.0P), 60%, 30%, 20%	EN61000-4-11:2004 + A1:2017, Criteria A
Voltage Interruptions	100%	EN61000-4-11:2004 + A1:2017, Criteria B
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013 + A1:2019
Limits of Harmonic Current Emissions		EN IEC 61000-3-2:2019
EMC Compliance according to EN60601-1	**Condition**	**Standard**
Medical electrical equipment Part 1-2: General requirements for basic safety and essential performance		EN60601-1-2:2015 + A1:2021
ESD Electrostatic discharge immunity test	Contact: ±4kV	IEC61000-4-2:2008 / EN61000-4-2:2009
Radiated, radio-frequency, electromagnetic field immunity test	10 V/m (80-2700MHz), 27V/m (385MHz), 28V/m (450MHz), 9V/m (710, 745, 780MHz), 28V/m (810, 870, 930MHz), 28V/m (1720, 1845, 1970MHz), 28V/m (2450MHz), 9V/m (5240, 5500, 5785MHz	IEC/EN61000-4-3:2006 + A2:2010
Fast Transient and Burst Immunity	AC Port: L, N, L-N: ±2kV	IEC/EN61000-4-4:2012
Surge Immunity	AC Pot: L-N: 0.5, 1, 2kV L-PE, N-PE: ±1, 2, 4kV	IEC/EN61000-4-5:2014 + A1:2017
Immunity to conducted disturbances, induced by radio-frequency fields	3Vrms (0.15-80MHz), 6Vrms (ISM bands)	IEC61000-4-6:2013 EN61000-4-6:2014
Power Magnetic Field Immunity	30A/m	IEC61000-4-8:2009 / EN61000-4-8:2010
Voltage Dips	100% (0.5P, 1.0P), 30%	IEC/EN61000-4-11:2004 + A1:2017
Voltage Interruptions	100%	IEC/EN61000-4-11:2004 + A1:2017
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013
Limits of Harmonic Current Emissions		EN IEC 61000-3-2:2019

DIMENSION & PHYSICAL CHARACTERISTICS

Parameter	Type	Value
Materials	PCB	FR4, (UL94 V-0)
	chassis	aluminum
Dimension (LxWxH)	"/OF" & "/SI/OF"	145.8 x 83.6 x 39.0mm 5.74 x 3.29 x 1.54 inch
	"/ENC" & "/SI/ENC"	145.8 x 85.6 x 43.5mm 5.74 x 3.37 x 1.71 inch

copyright © RECOM Power GmbH, all rights reserved

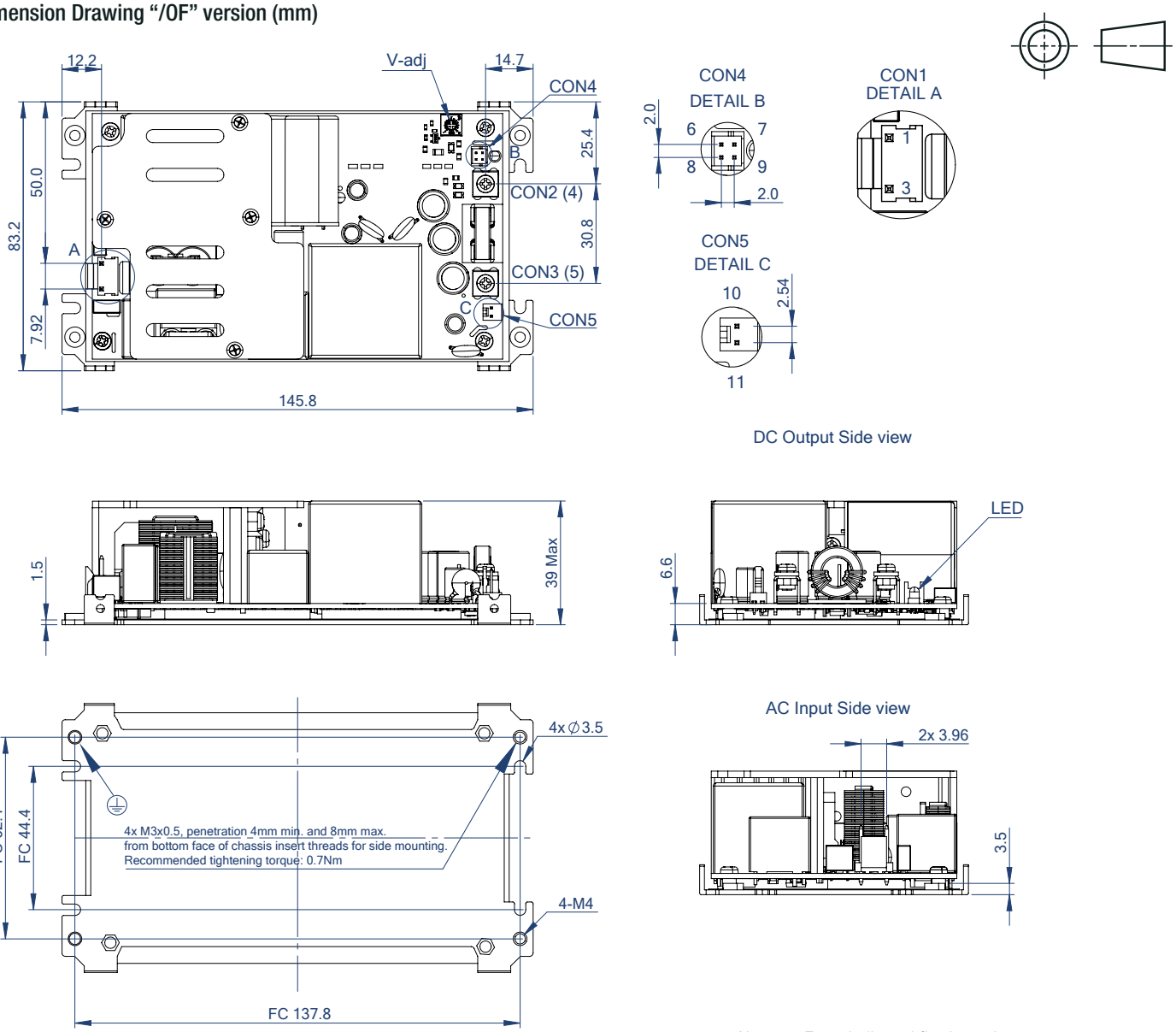
RACM420-K Series ◊ AC/DC Power Supply

420W (550W/5s) ◊ Input: 100V-240VAC

RECOM AC/DC Converter

DIMENSION & PHYSICAL CHARACTERISTICS

Dimension Drawing "/OF" version (mm)



Note12: Every indicated fixation points can be used for PE connections.

AC Input (CON1)		
#	Function	Connector
1	VAC in (L)	MOLEX 26-62-4030 (Pin2 removed)
3	VAC in (N)	

SENSE (CON4)		
#	Function	Connector
6, 7	VS+	HRS DF11-4DP-2DSA(01)
8, 9	VS-	

DC Output (CON2, CON3)		
#	Function	Screw Terminal Block
4	+Vout	DEGSON K45-20Z(H)
5	-Vout	
Maximum tightening torque: 0.5Nm		

FAN (CON5)		
#	Function	Connector
10	FAN-	WF2541-WSH02T01
11	FAN+	

Compatible Connector

Connector	Housing	Crimp Terminal
CON1	Molex 41695 Series or equivalent	Molex 2478 Series or equivalent

Tolerance: x.x= ±0.5mm
x.xx= ±0.25mm

copyright © RECOM Power GmbH, all rights reserved

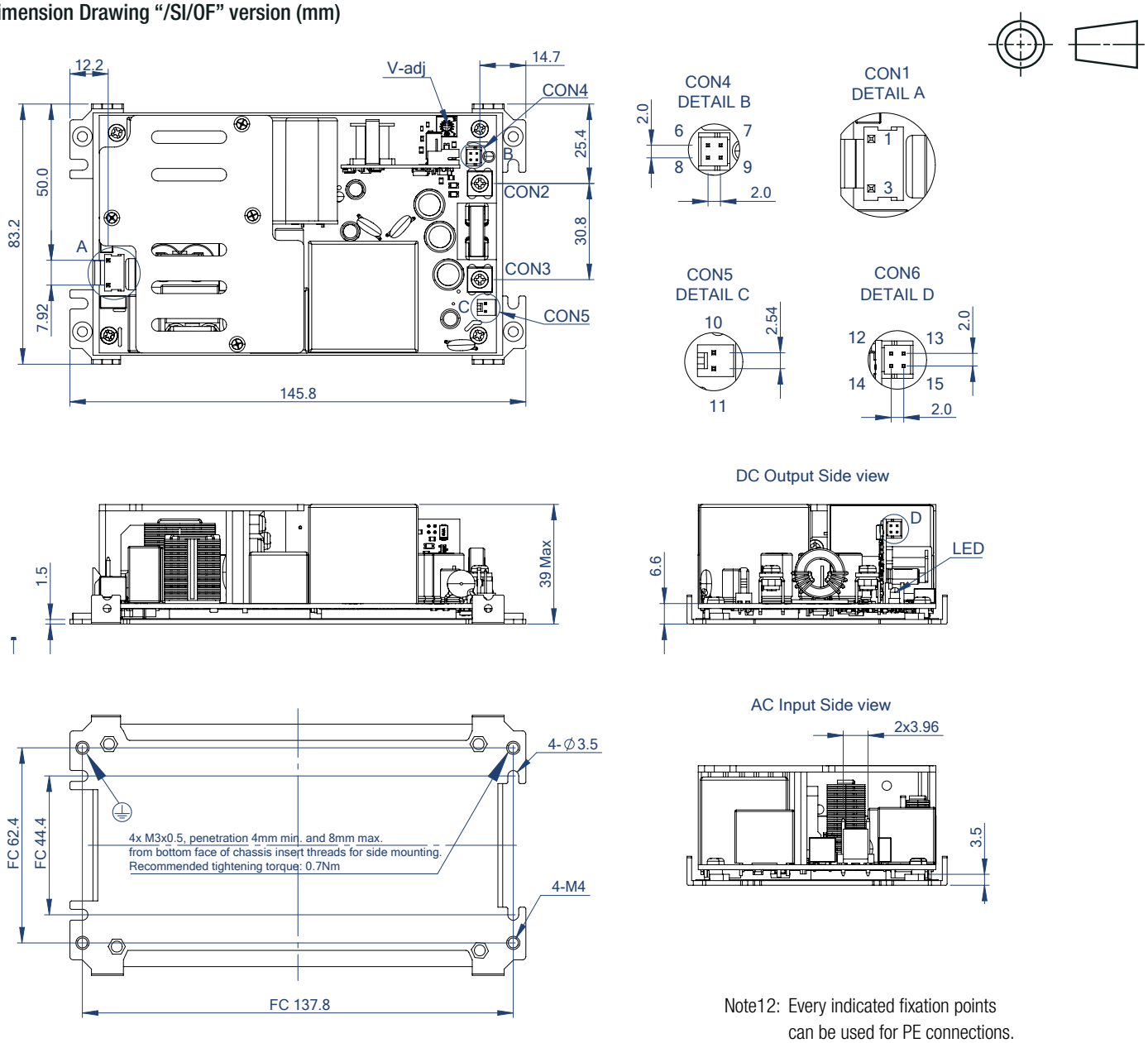
RACM420-K Series ◊ AC/DC Power Supply

420W (550W/5s) ◊ Input: 100V-240VAC

RECOM AC/DC Converter

DIMENSION & PHYSICAL CHARACTERISTICS

Dimension Drawing "/SI/OF" version (mm)



Note12: Every indicated fixation points can be used for PE connections.

AC Input (CON1)		
#	Function	Connector
1	VAC in (L)	MOLEX 26-62-4030 (Pin2 removed)
3	VAC in (N)	

SENSE (CON4)		
#	Function	Connector
6, 7	Sense+	HRS DF11-4DP-2DSA(01)
8, 9	Sense-	

SIGNAL (CON6)		
#	Function	Connector
10	CTRL ON/OFF	HRS DF11-4DP-2DS (24)
11	AC_Fail	
12	5VSB	
13	SGND	

DC Output (CON2, CON3)		
#	Function	Screw Terminal Block
4	+Vout	DEGSON K45-20Z(H)
5	-Vout	
Maximum tightening torque: 0.5Nm		

FAN (CON5)		
#	Function	Connector
10	FAN-	WF2541-WSH02T01
11	FAN+	

Compatible Connector

Connector	Housing	Crimp Terminal
CON1	Molex 41695 Series or equivalent	Molex 2478 Series or equivalent

Tolerance: x.x= ±0.5mm
x.xx= ±0.25mm

copyright © RECOM Power GmbH, all rights reserved

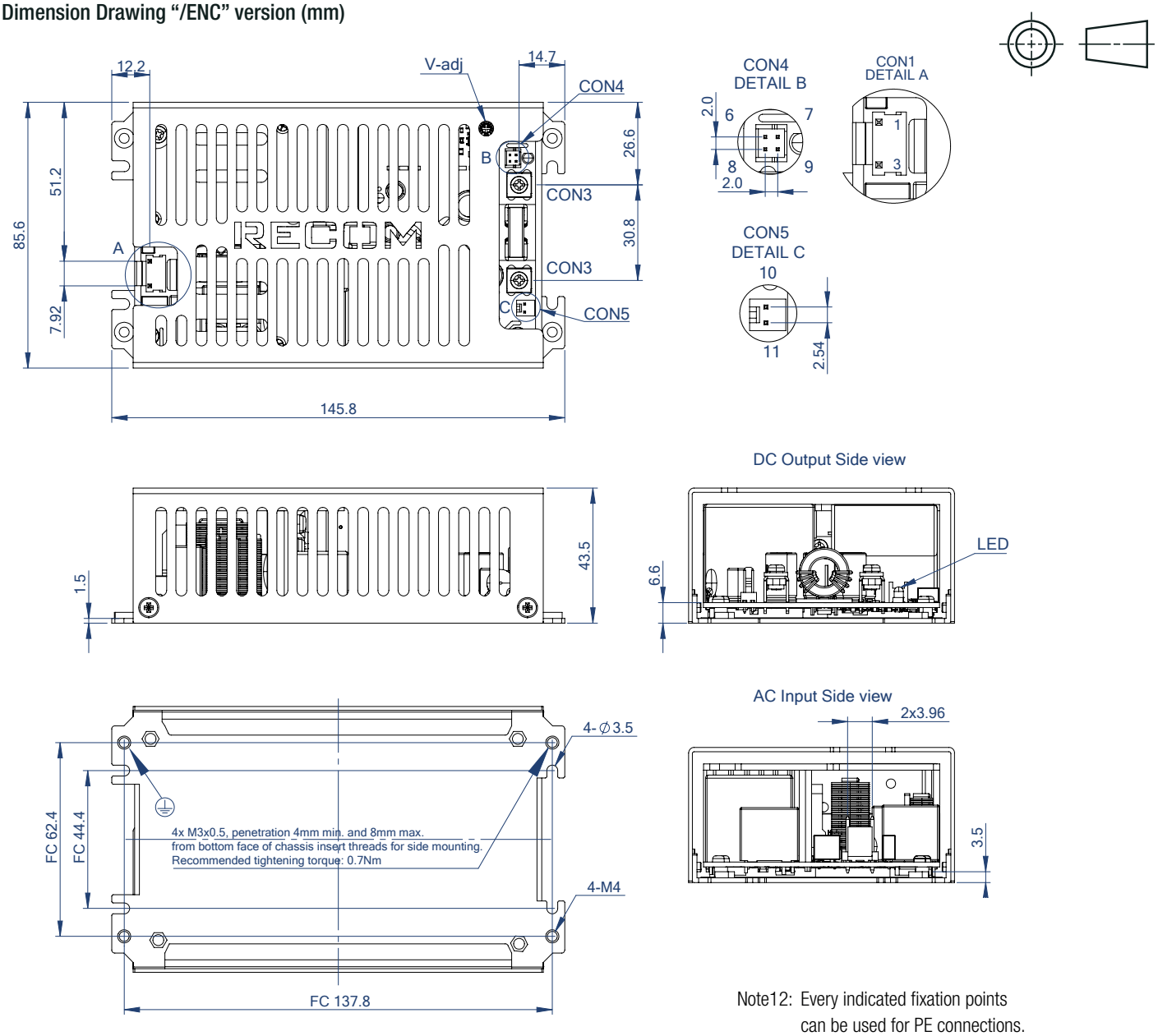
RACM420-K Series ◊ AC/DC Power Supply

420W (550W/5s) ◊ Input: 100V-240VAC

RECOM AC/DC Converter

DIMENSION & PHYSICAL CHARACTERISTICS

Dimension Drawing "/ENC" version (mm)



Note12: Every indicated fixation points can be used for PE connections.

AC Input (CON1)		
#	Function	Connector
1	VAC in (L)	MOLEX 26-62-4030 (Pin2 removed)
3	VAC in (N)	

SENSE (CON4)		
#	Function	Connector
6, 7	VS+	HRS DF11-4DP-2DSA(01)
8, 9	VS-	

DC Output (CON2, CON3)		
#	Function	Screw Terminal Block
4	+Vout	DEGSON K45-20Z(H)
5	-Vout	
Maximum tightening torque: 0.5Nm		

FAN (CON5)		
#	Function	Connector
10	FAN-	WF2541-WSH02T01
11	FAN+	

Compatible Connector

Connector	Housing	Crimp Terminal
CON1	Molex 41695 Series or equivalent	Molex 2478 Series or equivalent

Tolerance: x.x= ±0.5mm
x.xx= ±0.25mm

copyright © RECOM Power GmbH, all rights reserved

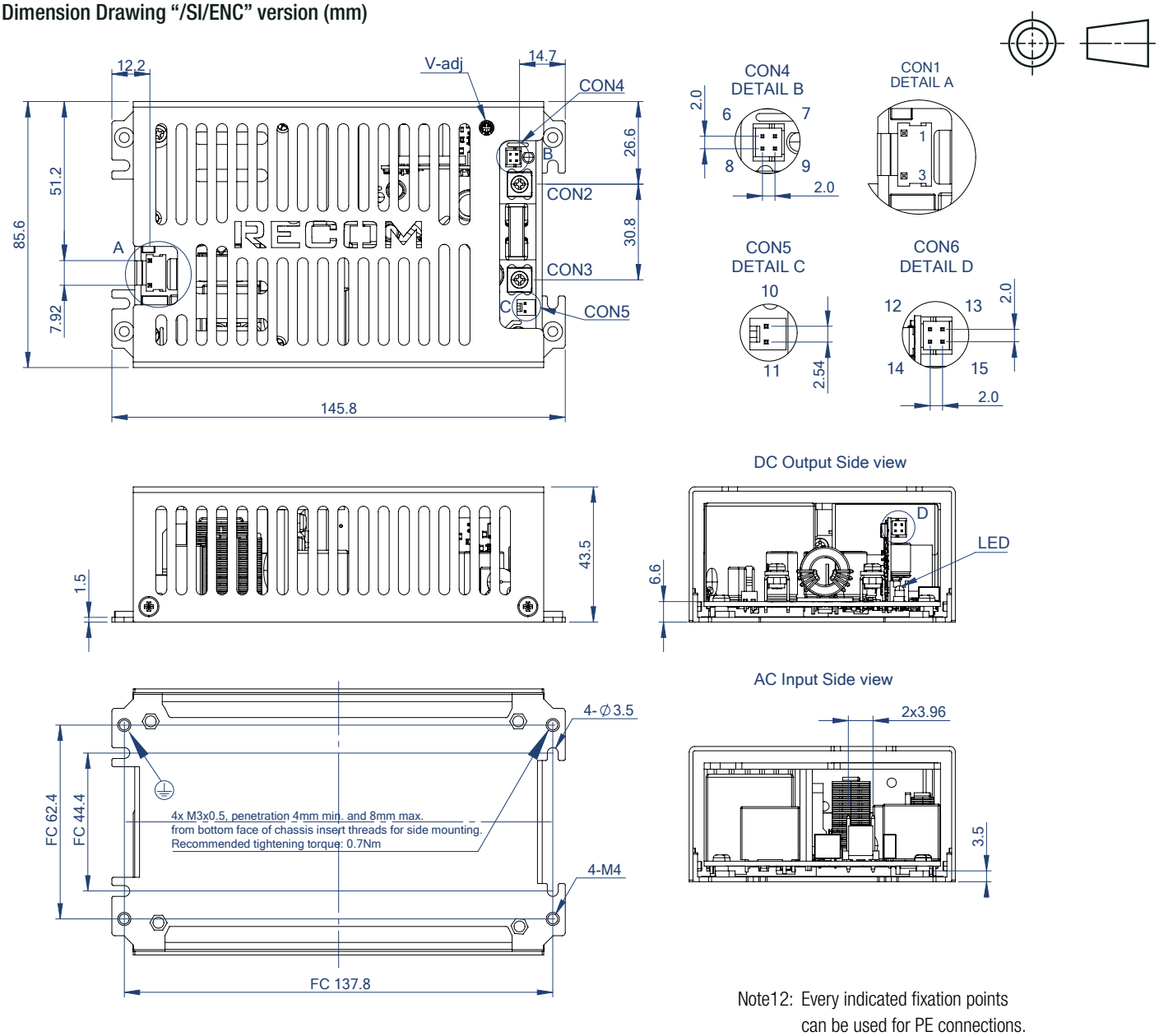
RACM420-K Series ◊ AC/DC Power Supply

420W (550W/5s) ◊ Input: 100V-240VAC

AC/DC Converter

DIMENSION & PHYSICAL CHARACTERISTICS

Dimension Drawing "/SI/ENC" version (mm)



Note12: Every indicated fixation points can be used for PE connections.

AC Input (CON1)		
#	Function	Connector
1	VAC in (L)	MOLEX 26-62-4030 (Pin2 removed)
3	VAC in (N)	

SENSE (CON4)		
#	Function	Connector
6, 7	VS+	HRS DF11-4DP-2DSA(01)
8, 9	VS-	

SIGNAL (CON6)		
#	Function	Connector
10	CTRL ON/OFF	HRS DF11-4DP-2DS(24)
11	AC_Fail	
12	5VSB	
13	SGND	

DC Output (CON2, CON3)		
#	Function	Screw Terminal Block
4	+Vout	DEGSON K45-20Z(H)
5	-Vout	
Maximum tightening torque: 0.5Nm		

FAN (CON5)		
#	Function	Connector
10	FAN-	WF2541-WSH02T01
11	FAN+	

Compatible Connector

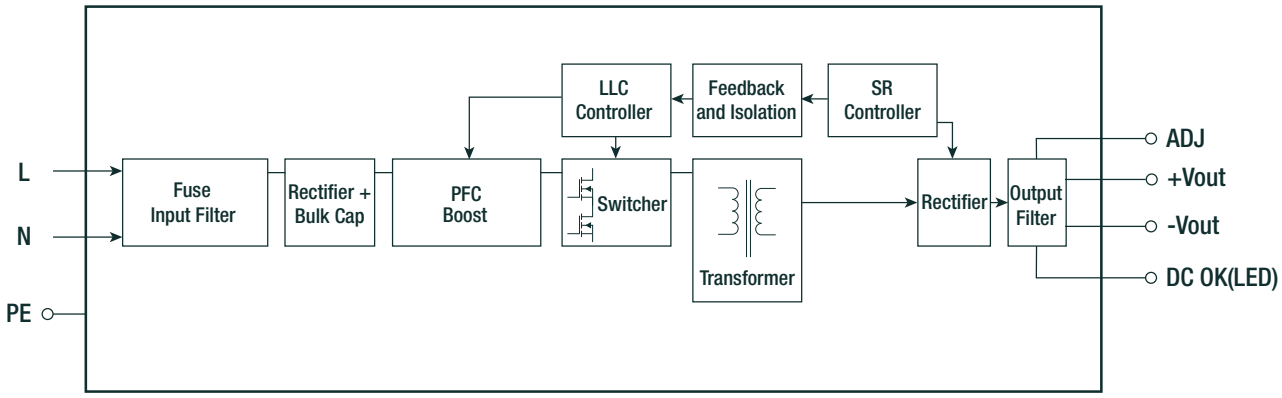
Connector	Housing	Crimp Terminal
CON1	Molex 41695 Series or equivalent	Molex 2478 Series or equivalent

Tolerance: x.x= ±0.5mm
x.xx= ±0.25mm

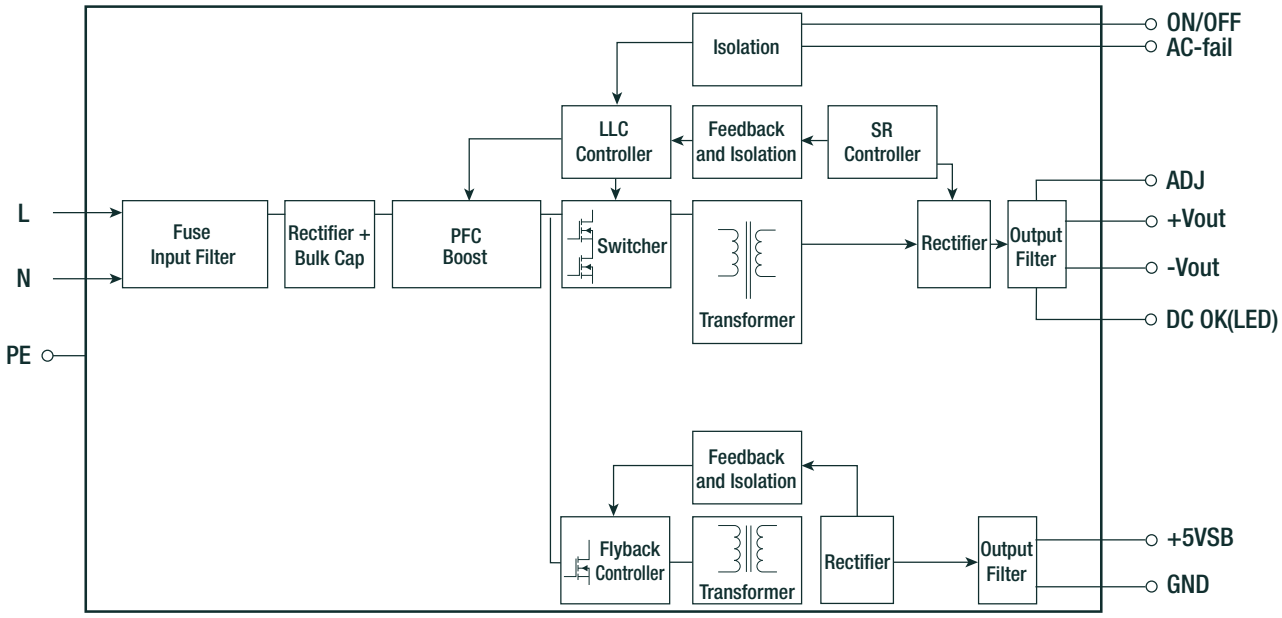
copyright © RECOM Power GmbH, all rights reserved

BLOCK DIAGRAM

valid for "/OF" & "/ENC" Versions



valid for "/SI" Versions



PACKAGING INFORMATION

Parameter	Type	Value
Packaging Dimension (LxWxH)	cardboard box	380.0 x 375.0 x 73.0mm
Packaging Quantity		6pcs
Storage Temperature Range		-40°C to +90°C
Storage Humidity	non-condensing	95% RH 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.

copyright © RECOM Power GmbH, all rights reserved
www.recom-power.com