Technical Data Sheet

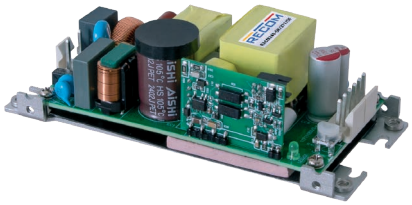
RACM240-K Series ◊ AC/DC Power Supply

240W ◊ Input: 100V-277VAC

RECOM
AC/DC Converter

FEATURES

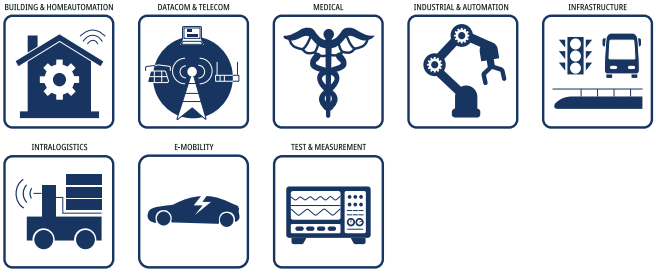
- Nominal input voltage range: 100V–277VAC
- Up to 170W still air convection cooled ratings
- 330W boost power for up to 5s
- Conduction cooling support via baseplate
- Above 90%+ Efficiency, starting from 40W
- -40° to +85°C ambient temperature ratings
- 2”x4” footprint
- Open frame or enclosed construction
- 3 year warranty





Open frame: 122.6 x 55.2 x 37.0mm (4.82 x 2.17 x 1.45 inch)
Enclosed: 122.6 x 62.2 x 38.0mm (4.82 x 2.44 x 1.49 inch)

APPLICATIONS



SAFETY & EMC

Reach compliant

RoHS² compliant 10 from 10

c UL us E224736

IECEE CB SCHEME

HOUSEHOLD CERTIFIED EN-60335-1

DESCRIPTION

The RACM240S-K power supplies with the highest power density deliver 330 watts of peak power to feed dynamic loads and up to 240 watts output power under moderate system airflow of just 1m/s, or up to 170 watts in still ambient air. These AC/DC modules with a global input range of 85-305Vac as versions in a closed housing or in an open design for fixing on 2”x4” mounting base are designed for a wide temperature range of -40° to 85°C. Built-in filters according to EN55032 “B” interference suppression for easy system integration without external filtering efforts and approval requirements according to OVC III overvoltage category under industrial and household or according to 2MOPP under medical safety standards in BF environments, meet a very wide range of applications and providing the highest criteria of energy efficiency of more than 90% from loads of 40W.

SELECTION GUIDE

Part Number	Operating Input Range [VAC]	Output Voltage nom. [VDC]	Output Current nom. [A]	Boost Current max (1) [A]	Efficiency (2) typ. [%]	Output Power continuous [W]
RACM240-12SK/277 (3,4)	85-305	12	20	25	92	240W
RACM240-15SK/277 (3,4)	85-305	15	16	20	93	240W
RACM240-24SK/277 (3,4)	85-305	24	10	13.75	93	240W
RACM240-36SK/277 (3,4)	85-305	36	6.67	9.2	93	240W
RACM240-48SK/277 (3,4)	85-305	48	5	6.9	93	240W
RACM240-54SK/277 (3,4)	85-305	54	4.44	6.1	93	240W

Note1: Refer to “**„Boost Power Duty Cycle“.**
Note2: Efficiency is tested at nominal input and rated load at +25°C ambient.

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RACM240-K Series ◊ AC/DC Power Supply

240W ◊ Input: 100V-277VAC

RECOM AC/DC Converter

MODEL NUMBERING

RACM240-__ SK/277/__/__

- nom. Output Power
- nom. Output Voltage
- **S**ingle
- Signal interface [4]
- Mechanical Options [3]

Note3: "/OF"= 4.82" x 2.17" open frame version, u-channel.
"/ENC"= 4.82" x 2.44" enclosed version.
Note4: "/SI"= open frame or enclosed version with Signal Interface connector

ORDERING INFORMATION

Model	Output Voltage	Package Type			
		"/OF" & "/SI/OF models	"/ENC" & "/SI/ENC models	"/ONB" & "/SI/ONB models	"/KT/ENC" models
RACM240-12SK/277	12VDC	y	y	on request	on request
RACM240-15SK/277	15VDC	y	y	on request	on request
RACM240-24SK/277	24VDC	y	y	on request	on request
RACM240-36SK/277	28VDC	y	y	on request	on request
RACM240-48SK/277	36VDC	y	y	on request	on request
RACM240-54SK/277	48VDC	y	y	on request	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)

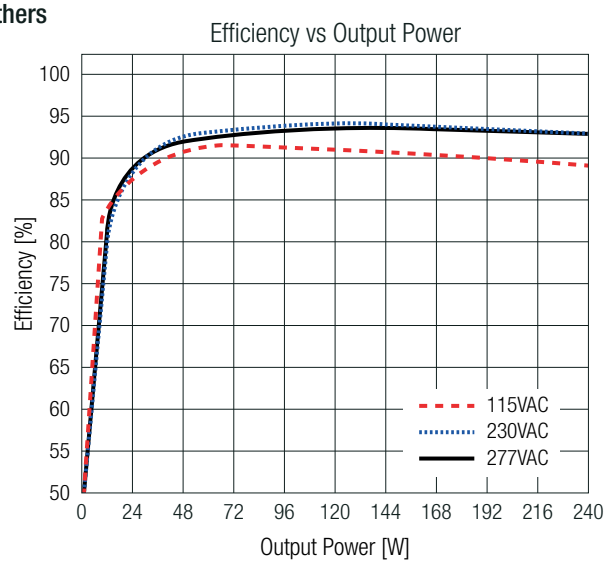
Parameter	Condition		Min.	Typ.	Max.
Nominal Input Voltage	50/60Hz		100VAC		277VAC
Operating Range [5]	47-63Hz		85VAC		305VAC
Input Current	115VAC			2.3A	4A
	230VAC			1.15A	
	277VAC			0.95A	
Inrush Current	cold start at 25°C	115VAC			40A
		230, 277VAC			70A
No Load Power Consumption	standard models	230VAC			500mW
	"/SI" models	230VAC, 5VSB unloaded			700mW
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	115VAC			0.99	
	230, 277VAC			0.98	
Start-up time	main & fan output	@full load, 230VAC			600ms
	5VSB	only for "/SI" models			5ms
Rise time	main & fan output	@full load, 230VAC			20ms
	5VSB	only for "/SI" models			4.5ms
Hold-up time	main & fan output	@full load, 230VAC	10ms		
	5VSB	only for "/SI" models	300ms		
Internal Operating Frequency					150kHz
Output Ripple and Noise [6]	20MHz BW, T_{AMB}= +25°C	standard models			120mVp-p
		"/SI" versions			100mVp-p

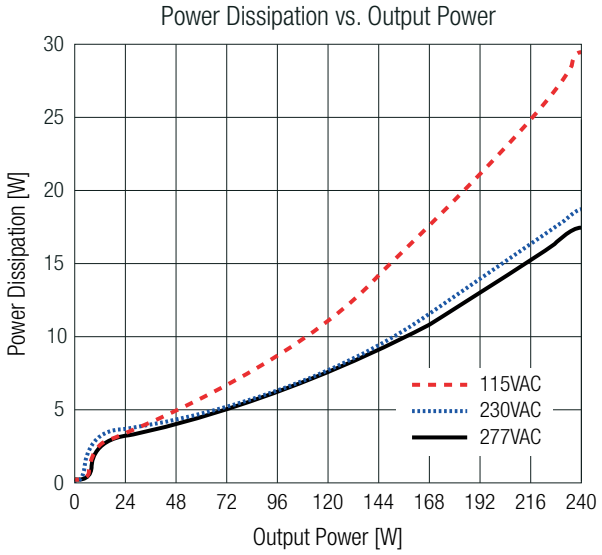
Note5: The products were submitted to all safety files at AC-operation (90V-305VAC)
Note6: Measurements are made with a 0.1µF MLCC & 10µF E-cap in parallel across output (low ESR).
The test setup can have an impact on ripple noise values (placement of scope probe, capacitors, it's specifications, wires,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

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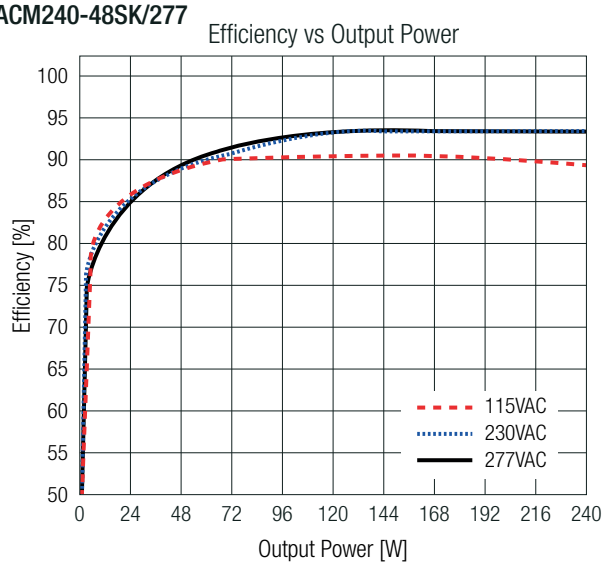
BASIC CHARACTERISTICS (measured @ T_{AMB}= 25°C, nom. V_{IN}, full load and after warm-up unless otherwise stated)

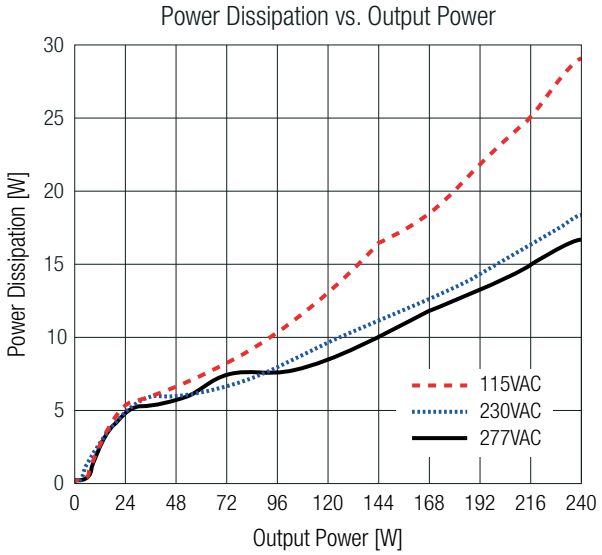
others





RACM240-48SK/277





ADDITIONAL FEATURES

Parameter	Condition		Min.	Typ.	Max.
Output Voltage Adjustability [7]	on-board trim potentiometer	RACM240-12SK/277	10.8VDC		13.2VDC
		RACM240-15SK/277	13.8VDC		16.2VDC
		RACM240-24SK/277	22.1VDC		25.9VDC
		RACM240-36SK/277	33.9VDC		38.1VDC
		RACM240-48SK/277	45.2VDC		50.8VDC
		RACM240-54SK/277	50.9VDC		57.3VDC
Standby Power	only for "/SI" models	230VAC, 5VSB un-loaded		400mW	
Soft Start Time		start with ON/OFF CTRL		70ms	
Input Current of CTRL Pin		$V_{ON/OFF}$= 3V		1mA	
ON/OFF CTRL		mains and fan output ON			open or 0.5 < $V_{ON/OFF}$ < 5V
		mains and fan output OFF			short or $V_{ON/OFF}$ < 0.5V
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.

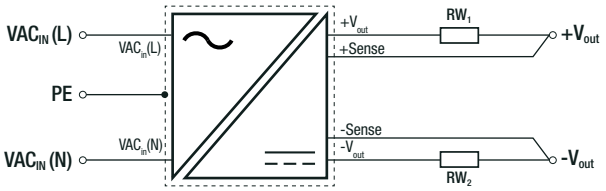
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ADDITIONAL FEATURES

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.

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			±2.0% max.
Line Regulation	low line to high line, full load		±1.0% max.
Load Regulation [10]	10% to 100% load	standard models	1.5% max.
		"/SI" models	1.0% max.
Transient Response	10%-100%-10% load change steps	others	1000mV
		RACM240-54SK/277	<10% of Vout
	recovery time		3ms

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

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

Parameter	Type			Value
Internal Input Fuse (11)				2x 6.3A slow blow type
Short Circuit Protection (SCP)	below 100mΩ			hiccup mode, auto recovery
Over Voltage Protection (OVP)	standard models		RACM240-12SK/277	<18VDC, latch off
			RACM240-15SK/277	<21VDC, latch off
			RACM240-24SK/277	<32VDC, latch off
			RACM240-36SK/277	<45VDC, latch off
			RACM240-48SK/277	<62VDC, latch off
			RACM240-54SK/277	<68VDC, latch off
Over Voltage Category (OVC)	according to 62368-1, 60601-1, 61558, 60335-1			OVC II (5000m)
	according to 62368-1, 61558, 60335-1			OVC III (2000m)
Over Current Protection (OCP)	standard models		RACM240-12SK/277	<50A, hiccup mode, auto recovery
			RACM240-15SK/277	<22A, hiccup mode, auto recovery
			RACM240-24SK/277	<17A, hiccup mode, auto recovery
			RACM240-36SK/277	<11A, hiccup mode, auto recovery
			RACM240-48SK/277 RACM240-54SK/277	<9A, hiccup mode, auto recovery
Over Temperature Protection (OTP)				shut down, auto recovery when temperatue back to normal
Class of Equipment				Class I or Class II
Isolation Voltage (12)	I/P to O/P	1 minute	according to 60601-1	4k43VAC
			according to 61558	4kVAC
			according to 62368-1	6kVDC
Isolation Resistance				1GΩ min.
Isolation Capacitance				100pF max.
Insulation Grade	I/P to O/P			reinforced
Means of Protection				2MOPP
Touch Current	264VAC/63Hz		normal condition	<100µA
			single fault	<500µA

Note11: For system integration with DC operation, consider a suitable DC fuse in front of the input.
Note12:For repeat Hi-Pot testing, reduce the time and/or the test voltage.

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	@ natural convection (0.1m/s)		-30°C to +85°C
Max. Case Temperature			+100°C
Operating Altitude (13)	according to 62368-1, 60601-1, 61558, 60335-1		5000m (OVC II)
	according to 62368-1, 61558, 60335-1		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	100VAC	T_{AMB}= 25°C	330 x 10³ hours
		T_{AMB}= 40°C	290 x 10³ hours
	230VAC	T_{AMB}= 25°C	340 x 10³ hours
		T_{AMB}= 40°C	290 x 10³ hours
Design Lifetime	230VAC, forecd air 1m/s, 240W Load		39 x 10³ hours
	230VAC, 0.1m/s, 160W Load		55 x 10³ hours

Note13: 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.

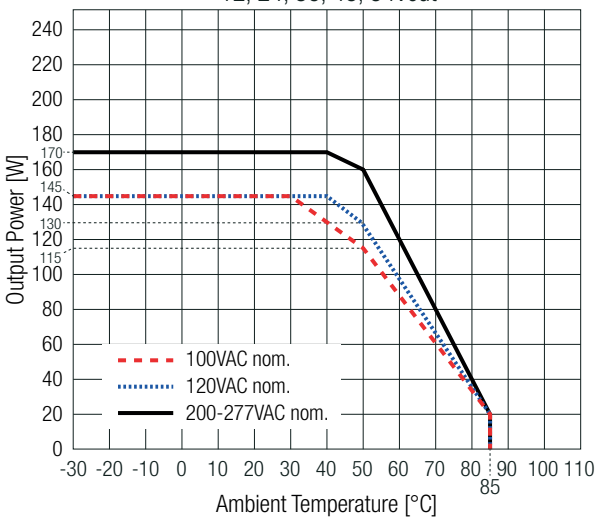
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ENVIRONMENTAL (measured @ T_{AMB}= 25°C, nom. V_{IN}, full load and after warm-up unless otherwise stated)

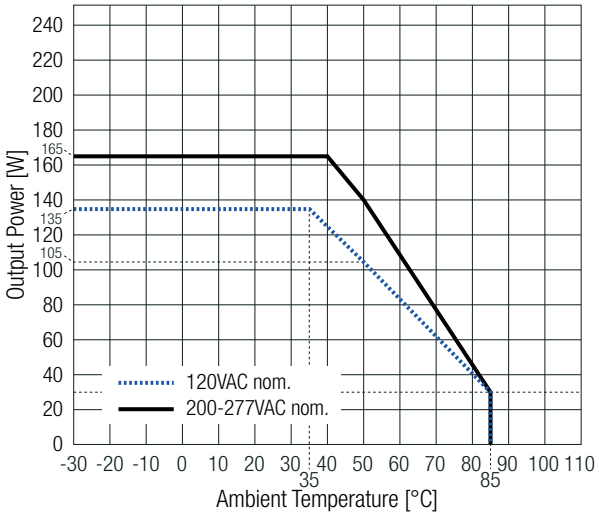
Convection cooled rating @ still air <0.1m/s

"/OF" Versions

12, 24, 36, 48, 54Vout

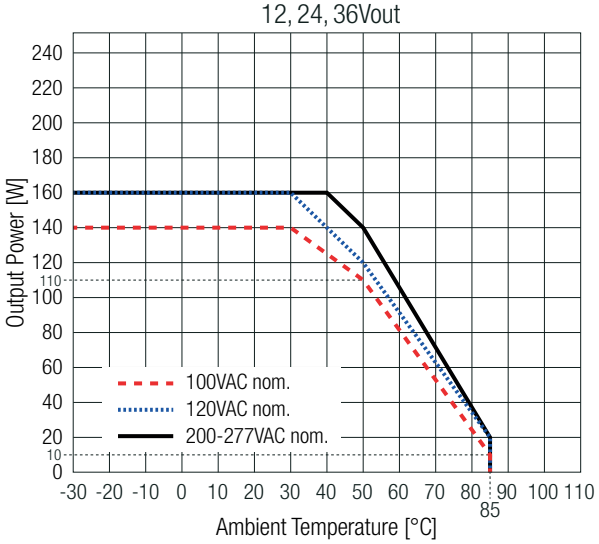


15Vout

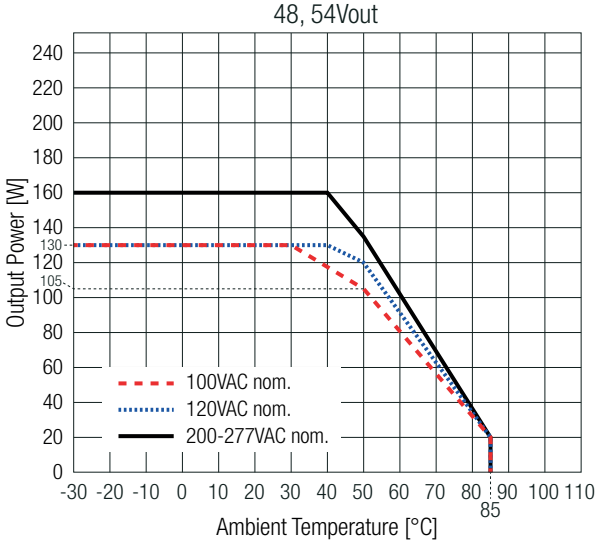


"/ENC" Versions

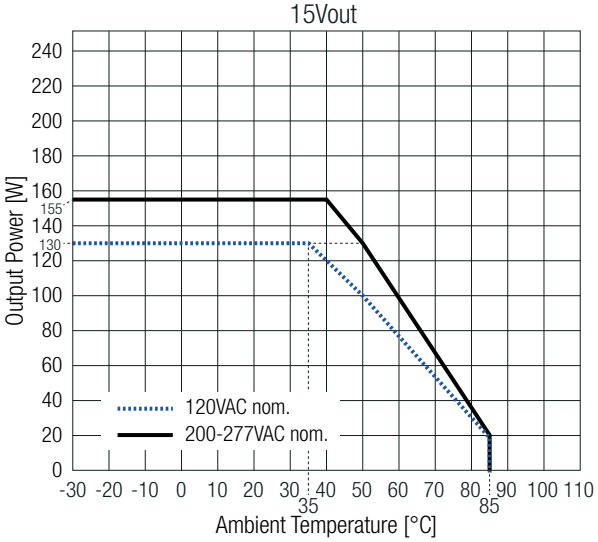
12, 24, 36Vout



48, 54Vout



15Vout



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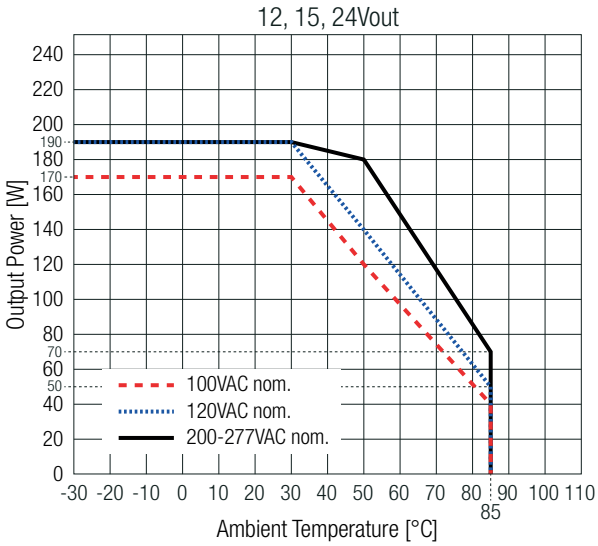
RACM240-K Series ◊ AC/DC Power Supply

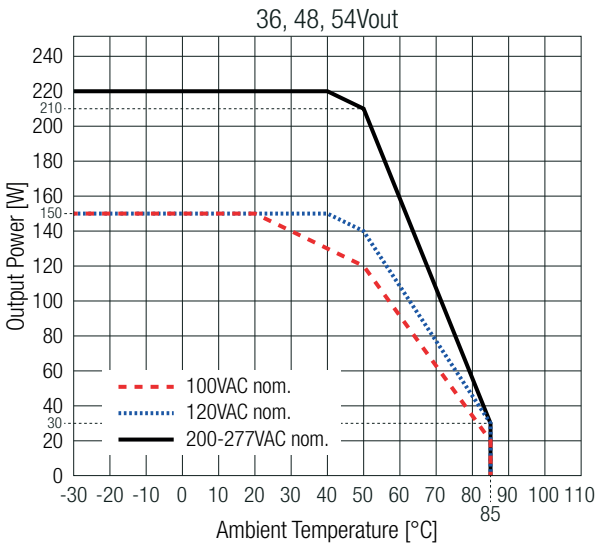
240W ◊ Input: 100V-240VAC

RECOM AC/DC Converter

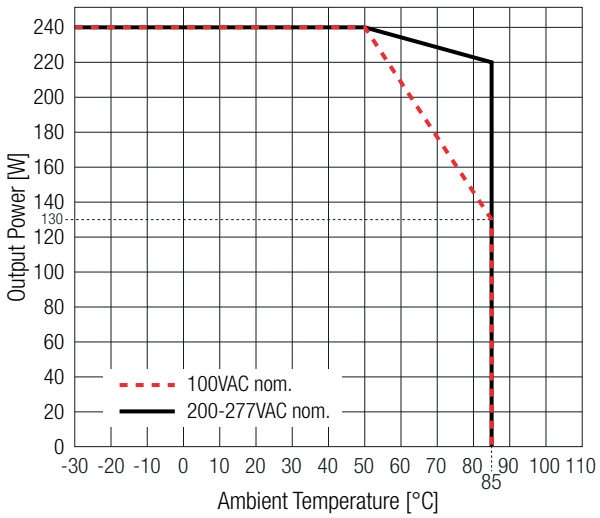
ENVIRONMENTAL (measured @ T_{AMB}= 25°C, nom. V_{IN}, full load and after warm-up unless otherwise stated)

Conduction cooled rating with 2mm Alu-plate A5





Air flow rating @ 2.5m/s and 2cm stand-off pillars

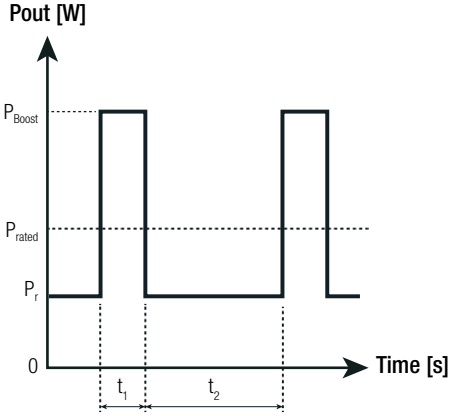


BOOST POWER DUTY CYCLE

Parameters	Units	RACM240-12SK/277 RACM240-15SK/277	RACM240-24SK/277 RACM240-36SK/277 RACM240-48SK/277 RACM240-54SK/277
P_{rated}= rated output power	[W]	refer to rating Graphs above	
P_{Boost}= Boost power	[W]	300W max.	330W 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	
k= heat dissipation factor	[ ]	2.5	1.5

Calculation:

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



Practical Example (RACM240-48SK/277 for still air convection):

Take the RACM240-48SK/277 at 277VAC input voltage and at T_{AMB}= 70°C, with still air convection.

P_{Boost} = 330W
P_{rated} = 100W
t_1 = 5s
t_2 = 11 x t_1
k = 2.5

$$P_r = \frac{100 \times (5 + 55) - (330 \times 5)}{55 \times 2.5} = \underline{31.6W}$$

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SAFETY & CERTIFICATIONS

Certificate Type (Safety)	Report Number	Standard
Audio/Video, information and communication technology equipment - Part1: Safety requirements 4th Edition	E491408-A6047-UL	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	25101301201	IEC62368-1:2023 4th Edition
		EN IEC 62368-1:2024
Medical electrical equipment Part 1: General requirements for basic safety and essential performance	E511305-D6008-UL	ANSI/AAMI ES60601-1:2005+A2:2010
		CAN/CSA-C22.2 No. 60601-1:14 3rd Edition
Medical electrical equipment Part 1: General requirements for basic safety and essential performance	25101301301	IEC60601-1:2005 + AM2:2020 Edition 3.2
Household and similar electrical appliances – Safety – Part 1: General requirements	64.110.25.07197.01	IEC60335-1:2010 + A2:2016 5th Edition
		EN60335-1:2012 + A16:2023
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	085-250719601-000	IEC61558-1:2017 3rd Edition
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
RoHS2		RoHS-2011/65/EU + AM-2015/863

EMC Compliance according to EN55032	Condition	Standard
Electromagnetic compatibility of multimedia equipment – Emission Requirements		EN55032:2015 + A11:2020, Class B

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, Class B
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
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, 2kV	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

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SAFETY & CERTIFICATIONS

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, 11 2kV L-PE, N-PE: ±1. 2kV	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%	EN61000-4-11:2004 + A1:2017
Voltage Interruptions	100%	EN61000-4-11:2004 + A1:2017
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013
Limits of Harmonic Current Emissions		IEC61000-3-2:2005 + A2:2009

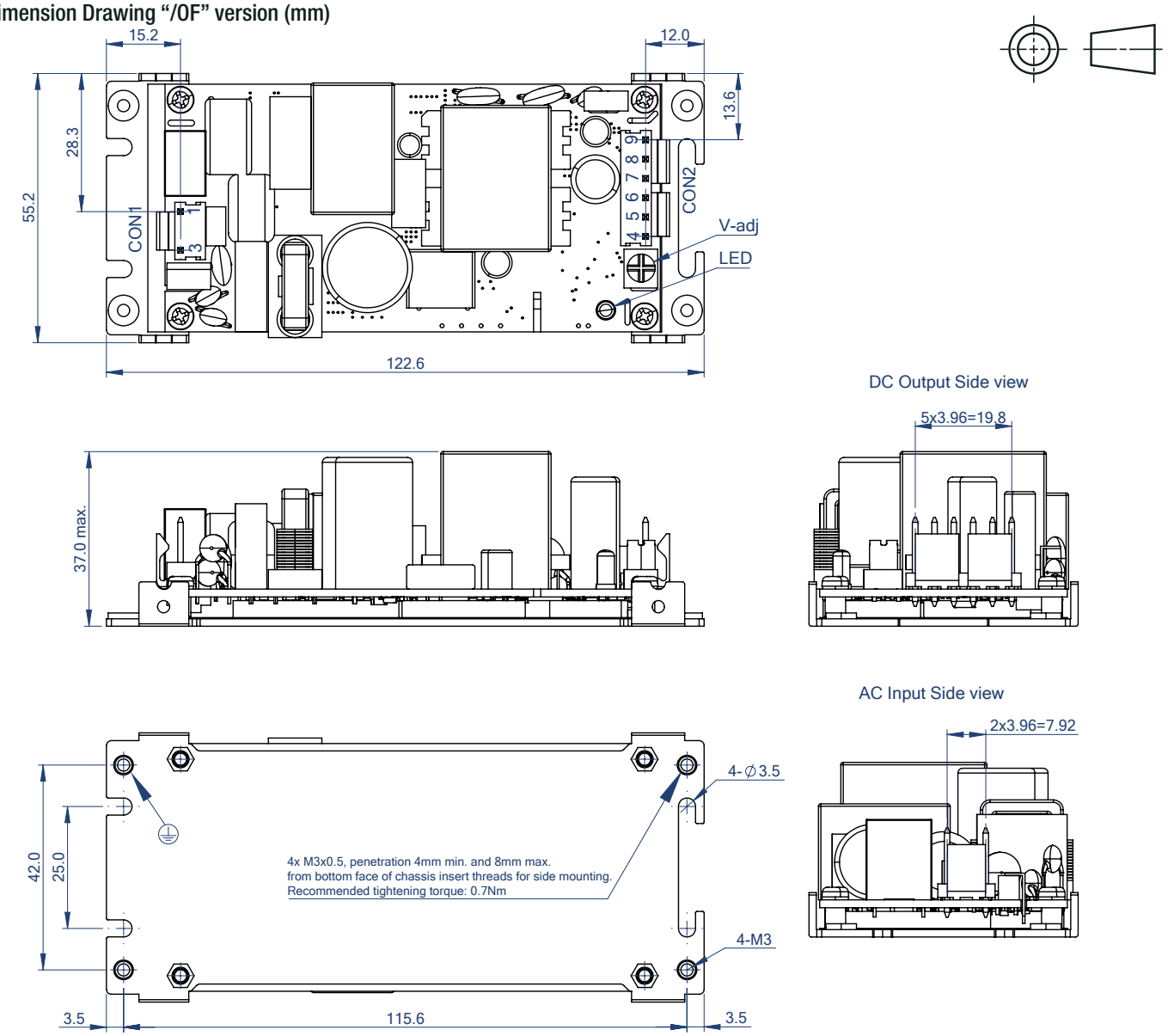
DIMENSION & PHYSICAL CHARACTERISTICS

Parameter	Type	Value
Materials	PCB	FR4, (UL94-V0)
	chassis	aluminum
Dimension (LxWxH)	"/OF" & "/SI/OF"	122.6 x 55.2 x 37.0mm 4.82 x 2.17 x 1.45 inch
	"/ENC" & "/SI/ENC"	122.6 x 62.2 x 38.0mm 4.82 x 2.44 x 1.49 inch
Weight	"/OF"	210g typ. 0.50 lbs
	"/SI/OF"	220g typ. 0.54 lbs
	"/ENC"	240g typ. 0.52 lbs
	"/SI/ENC"	250g typ. 0.55 lbs

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DIMENSION & PHYSICAL CHARACTERISTICS

Dimension Drawing "/OF" version (mm)



Note14: Every indicated fixation points can be used for PE connections

Connector Information

AC Input (CON1)

#	Function	Connector
1	VAC in (N)	3 Pins (Pin2 removed)
3	VAC in (L)	with 3.96mm pitch

DC Output (CON2)

#	Function	Connector
4, 5, 6	+Vout	6 Pins
7, 8, 9	-Vout	with 3.96mm pitch
FC= Fixing centers		

Compatible Connector

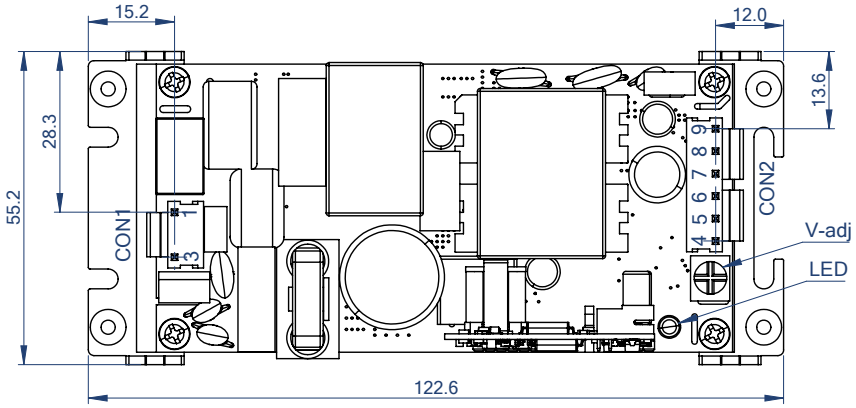
Housing	Crimp Terminal
Molex 41695 Series or equivalent	Molex 2478 Series or equivalent

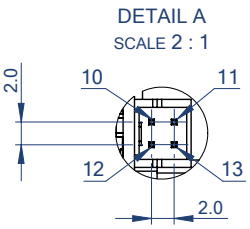
Tolerance: xx.x= ±0.5mm
xx.xx= ±0.25mm

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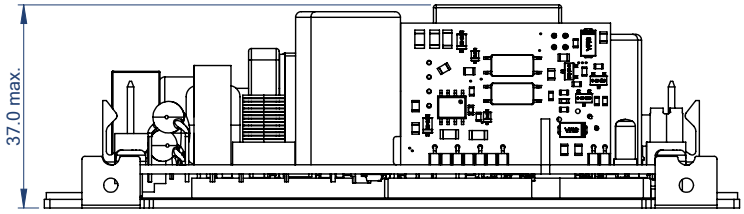
DIMENSION & PHYSICAL CHARACTERISTICS

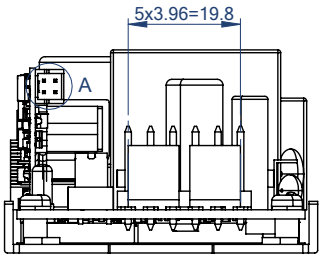
Dimension Drawing "/SI/OF" version with Signal Interface Connector (mm)



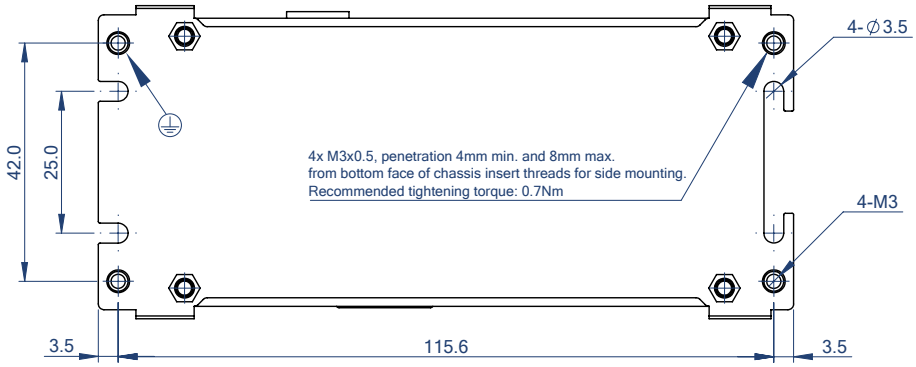


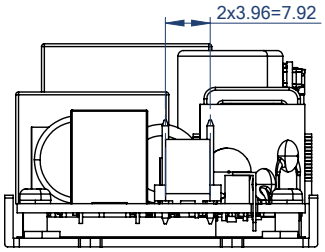
DC Output Side view





AC Input Side view





Note14: Every indicated fixation points can be used for PE connections

Connector Information

AC Input (CON1)

#	Function	Connector
1	VAC in (N)	3 Pins (Pin2 removed)
3	VAC in (L)	with 3.96mm pitch

DC Output (CON2)

#	Function	Connector
4, 5, 6	+Vout	6 Pins
7, 8, 9	-Vout	with 3.96mm pitch
FC= Fixing centers		

Connector Information

Signal Interface (CON3)

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

Compatible Connector

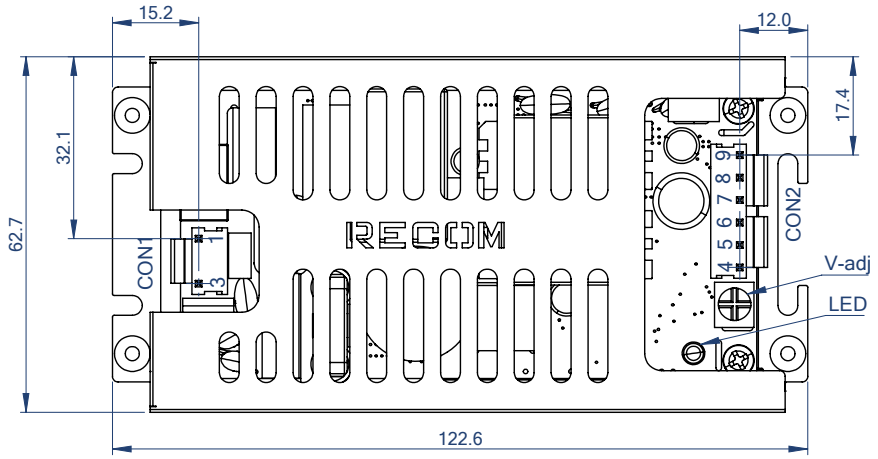
Housing	Crimp Terminal
Molex 41695 Series or equivalent	Molex 2478 Series or equivalent

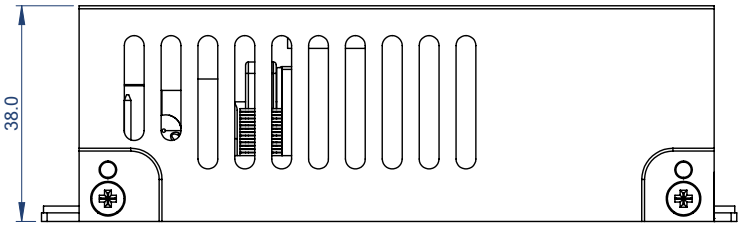
Tolerance: xx.x= ±0.5mm
xx.xx= ±0.25mm

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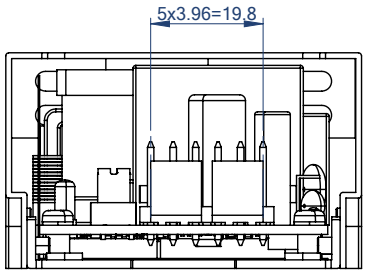
DIMENSION & PHYSICAL CHARACTERISTICS

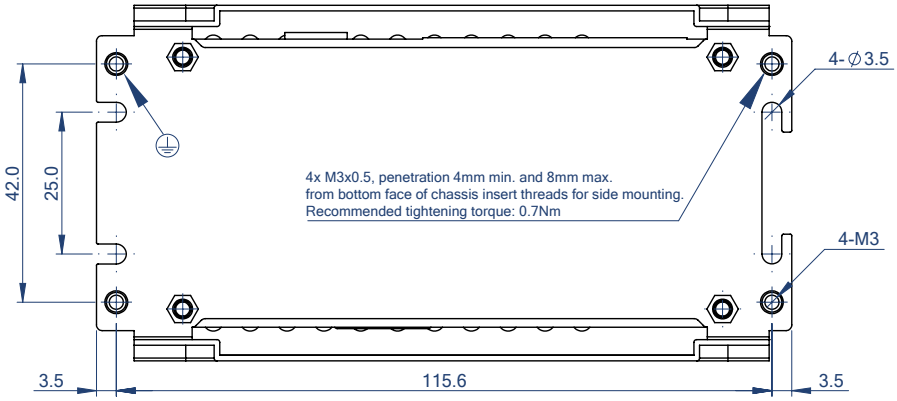
Dimension Drawing "/ENC" version (mm)



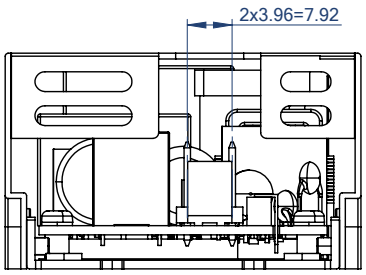


DC Output Side view





AC Input Side view



Note14: Every indicated fixation points can be used for PE connections

Connector Information

AC Input (CON1)

#	Function	Connector
1	VAC in (N)	3 Pins (Pin2 removed)
3	VAC in (L)	with 3.96mm pitch

DC Output (CON2)

#	Function	Connector
4, 5, 6	+Vout	6 Pins
7, 8, 9	-Vout	with 3.96mm pitch
FC= Fixing centers		

Compatible Connector

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

Tolerance: xx.x= ±0.5mm
xx.xx= ±0.25mm

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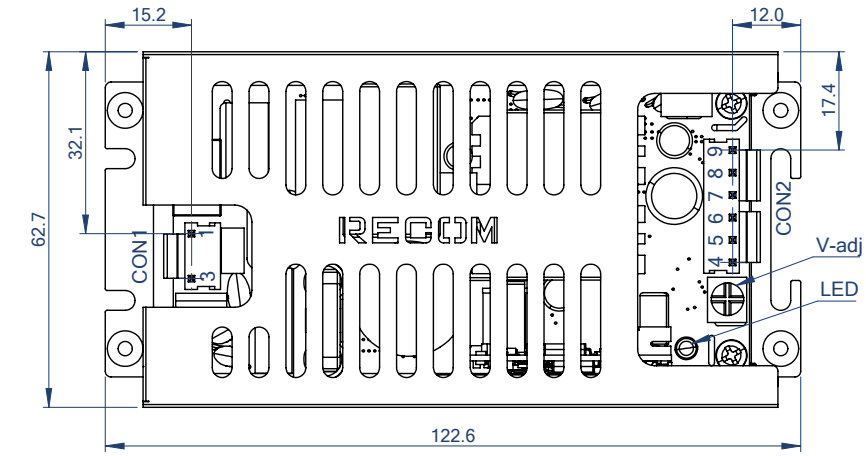
RACM240-K Series ◊ AC/DC Power Supply

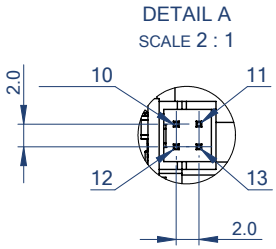
240W ◊ Input: 100V-240VAC

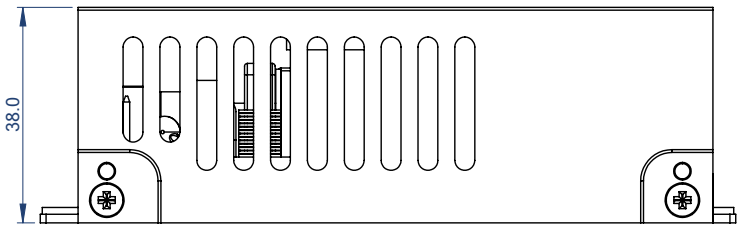
RECOM AC/DC Converter

Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

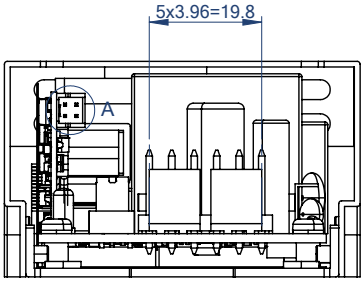
Dimension Drawing "/SI/ENC" version with Signal Interface Connector (mm)

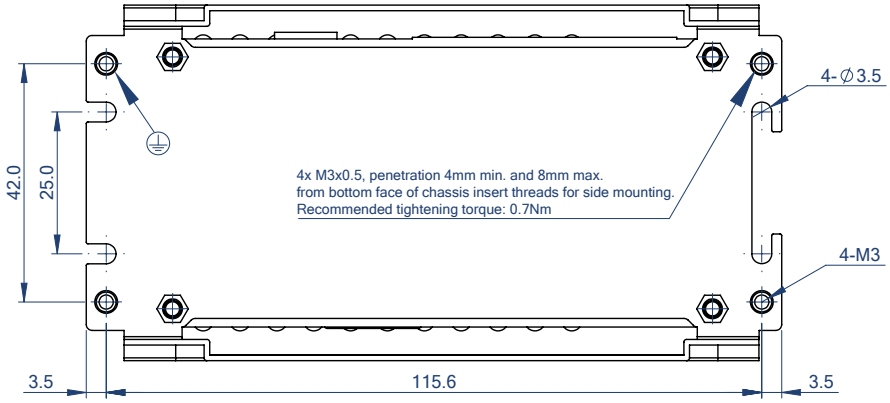




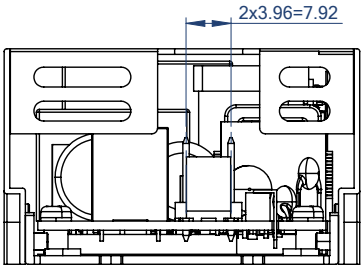


DC Output Side view





AC Input Side view



Note14: Every indicated fixation points can be used for PE connections

Connector Information

AC Input (CON1)

#	Function	Connector
1	VAC in (N)	3 Pins (Pin2 removed) with 3.96mm pitch
3	VAC in (L)	

DC Output (CON2)

#	Function	Connector
4, 5, 6	+Vout	6 Pins with 3.96mm pitch
7, 8, 9	-Vout	
FC= Fixing centers		

Connector Information

Signal Interface (CON3)

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

Compatible Connector

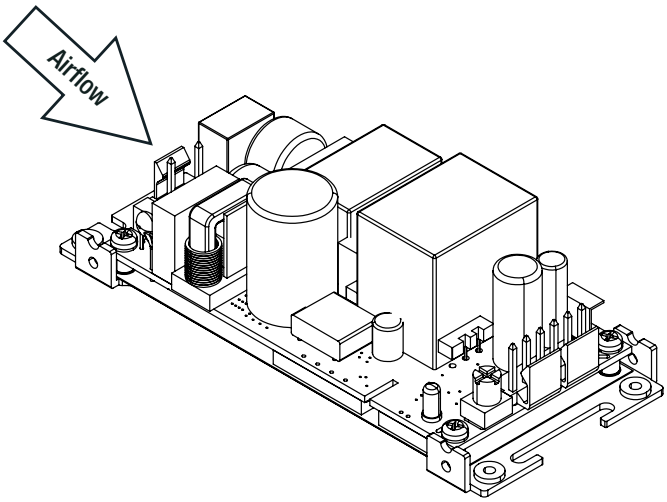
Housing	Crimp Terminal
Molex 41695 Series or equivalent	Molex 2478 Series or equivalent

Tolerance: xx.x= ±0.5mm
xx.xx= ±0.25mm

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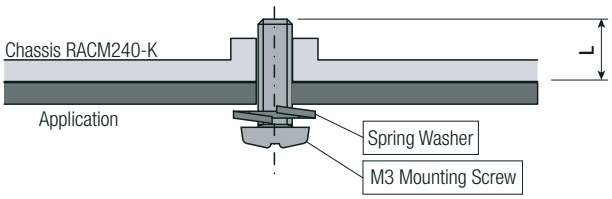
INSTALLATION & APPLICATION

Preferred airflow direction
valid for all different models



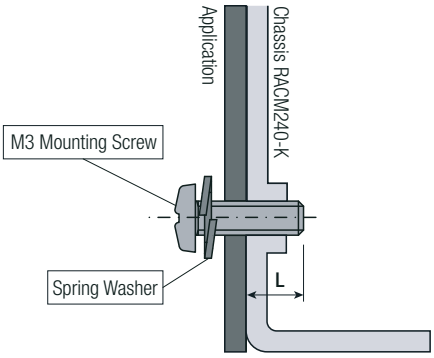
Mounting Equipment

Baseplate Mounting



Recommended mounting tightening torque= 0.7Nm.
L= 4mm min. / 8mm max.

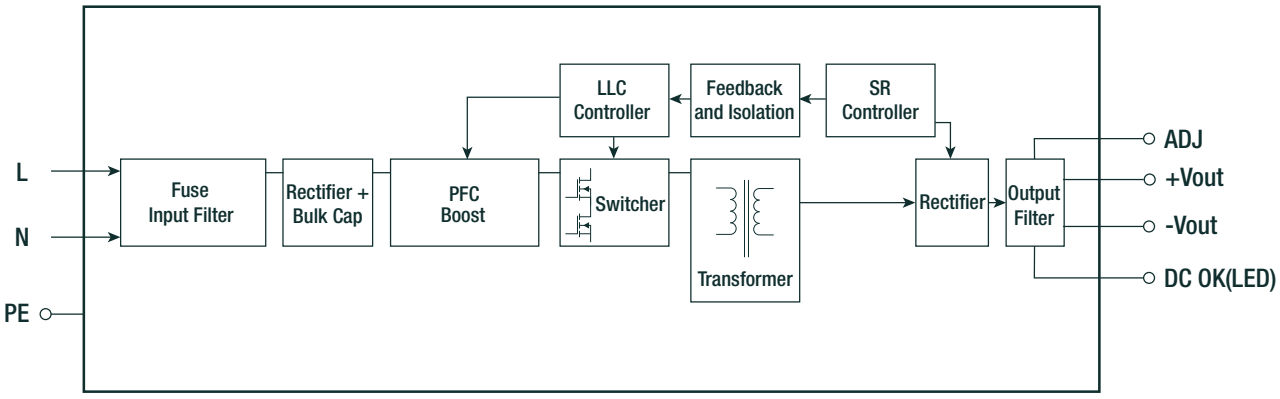
Side Mounting



Recommended mounting tightening torque= 0.7Nm.
L= 4mm min. / 8mm max.

BLOCK DIAGRAM

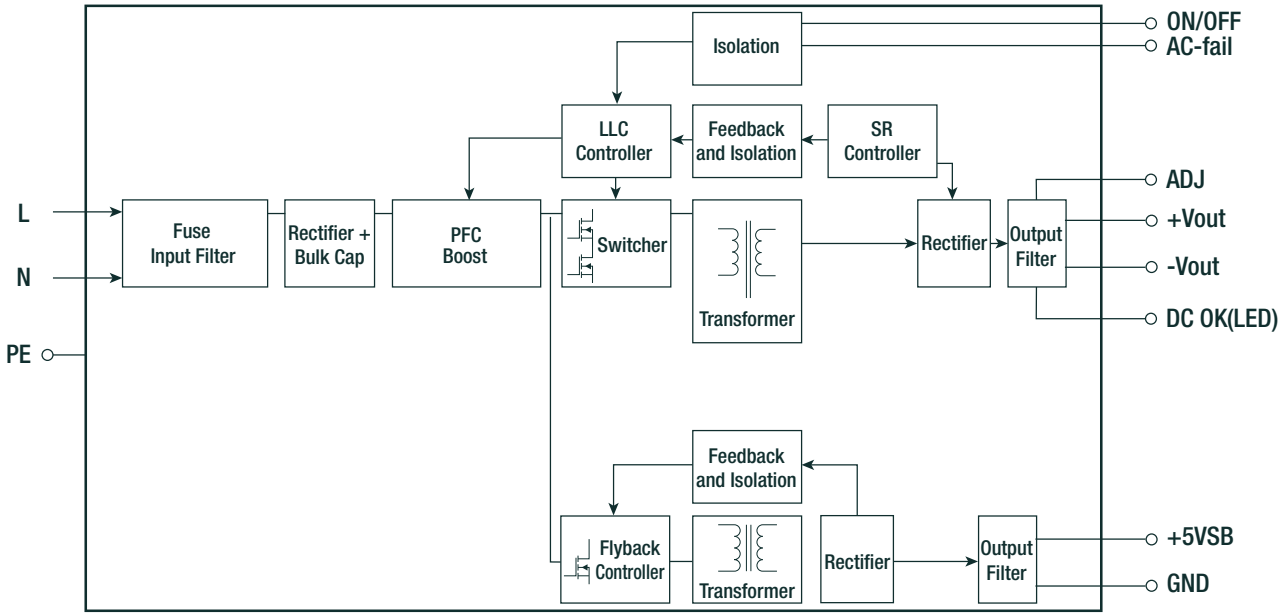
valid for "/OF" & "/ENC" Versions



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BLOCK DIAGRAM

valid for "/SI" Versions



PACKAGING INFORMATION

Parameter	Type	Value
Packaging Dimension (LxWxH)	tray	415.0 x 365.0 x 61.0mm
Packaging Quantity		12pcs
Storage Temperature Range		-40°C to +90°C
Storage Humidity	non-condensing	95% RH max.

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