140W (210W/10s) ♦ Input: 100V-240VAC



#### **FEATURES**

- · Cost-efficient and reliable Design
- 210W boost power up to 10s
- Over voltage category OVC III; 2000m
- 5000m operating altitude
- Open Frame or enclosed; optional: Push-In connectors
- 2MOPP reinforced isolation, BF applicable
- 3 year warranty





Open frame: 147.0 x 81.5 x 38.0mm (5.7 x 3.2 x 1.5 inch) Enclosed: 147.0 x 81.5 x 40.0mm (5.7 x 3.2 x 1.6 inch)

#### **APPLICATIONS**













**SAFETY & EMC** 



















#### **DESCRIPTION**

Cost efficiency and reliability characterize the RACM140E-K AC/DC power supplies, delivering a continuous output of 140 watts and a boost power of 210 watts for dynamic load surges lasting up to 10 seconds. Mounting options include industry-standard 3"x5" screw points or robust tabs, allowing direct installation from above onto base plates. Connection to be facilitated through a wiring harness and pin headers, or via optional tool-less 'push-in' terminals. Certified for household and industrial standards with overvoltage category OVC III respectively OVC II for operation up to 5000 meters altitude, the series additionally holds UL certifications with 2MOPP and complies with BF requirements for medical use. To simplify system integration, the modules offer ample margin to EN55032 'B' limits and increased 'Surge and Burst' immunity. Covering a wide range of DC output requirements. output voltages can be adjusted by ±20% on average, using a trim potentiometer.

SELECTION GUIDE						
Part Number	Operating Input Range [VAC]	Output Voltage nom. [VDC]	Output Adjustability [VDC]	rated Output Current <sup>(1)</sup> [A]	Efficiency <sup>(2)</sup> typ. [%]	rated Output Power <sup>(1)</sup> [W]
RACM140E-12SK (3)	80-264	12	12-18	11.6	86	140W
RACM140E-15SK (3)	80-264	15	12-18	9.3	87	140W
RACM140E-24SK (3)	80-264	24	22-28	5.8	88	140W
RACM140E-36SK (3)	80-264	36	30-36	3.8	90	136.8W
RACM140E-48SK (3)	80-264	48	48-54	2.9	90	140W

Note1: Refer to ",,PEAK LOAD Capability".

Note2: Efficiency is tested at nominal input and rated load at +25°C ambient.

140W (210W/10s) ♦ Input: 100V-240VAC



#### **MODEL NUMBERING**



Note3: "/OF" = 5.7" x 3.2" open frame version, u-channel.

"/ENC" = 5.7" x 3.2" enclosed version (15Vout & 36Vout, on request).

"/PT/ENC" = 5.7" x 3.2" enclosed version with push in terminals (on request).

ORDERING INFORMATION						
	nom. Output -	Package Type				
Model	Voltage	5.7" x 3.2" open frame " <b>/0F</b> "	5.7" x 3.2" enclosed " <b>/ENC</b> "	5.7" x 3.2" enclosed with push-in terminals "/PT/ENC"		
RACM140E-12SK	12VDC	Χ	Х	on request		
RACM140E-15SK	15VDC	χ	on request	on request		
RACM140E-24SK	24VDC	Χ	Х	on request		
RACM140E-36SK	36VDC	Χ	on request	on request		
RACM140E-48SK	48VDC	Χ	Х	on request		

x= standard portfolio / on request= MOQ may apply on project base / N/A= not available

Parameter	Cond	lition	Min.	Тур.	Max.
Nominal Input Voltage	50/6	100VAC		240VAC	
On another Design (A)	47-6	63Hz	80VAC		264VAC
Operating Range (4)	D	С	120VDC		370VDC
lanut Current	115	VAC			3A
Input Current	230	VAC			2A
law ich Current	and start at OEOO	115VAC			30A
Inrush Current	cold start at 25°C	230VAC			60A
No Load Power Consumption	·			100mW	
5 1 2 0 1 M 1 H		P <sub>IN</sub> = 0.3W		100mW	
Ecodesign Standby Mode Use (Available output power for stated input power)	115/230VAC	P <sub>IN</sub> = 0.5W		300mW	
(Available output power for stated input power)		P <sub>IN</sub> = 1.0W		770mW	
Input Frequency Range	AC i	nput	47Hz		63Hz
		RACM140E-12SK	12VDC		18VDC
	on-board trim potentiometer	RACM140E-15SK	12VDC		18VDC
Output Voltage Adjustability (5)		RACM140E-24SK	22VDC		28VDC
		RACM140E-36SK	30VDC		36VDC
		RACM140E-48SK	48VDC		54VDC
Minimum Load			0%		
Power Factor	115		0.6		
Power Factor	230		0.5		
Start-up time	230		200ms	300ms	
Rise time	230			20ms	
Hald on the a	115	10ms			
Hold-up time	230	20ms			
Internal Operating Frequency					100kHz
Output Ripple and Noise (6)	20MHz BW	$T_{AMB} = +25$ °C			1% of Vout

Note4: The products were submitted to all safety files at AC-operation.

Note5: Make sure that the maximum rated output power will not be exceeded when trimming up.

Note6: Measurements are made with a 0.1µF MLCC & 10µF E-cap in parallel across output (low ESR).

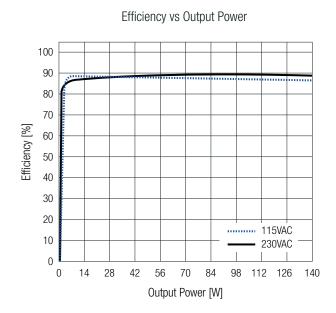
The test setup can have an impact on ripple noise values (placement of scope probe, capacitors, it's specifications,

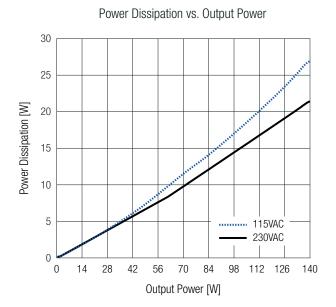
wires, PCB tracks, distances, etc.)

140W (210W/10s) ♦ Input: 100V-240VAC



BASIC CHARACTERISTICS (measured @ T<sub>AMB</sub>= 25°C, nom. V<sub>IN</sub>, full load and after warm-up unless otherwise stated)

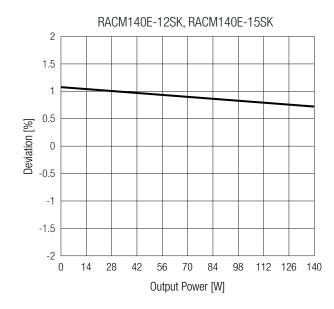


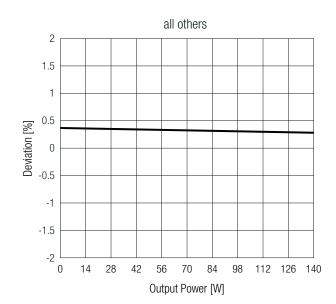


·	5°C, nom. V <sub>IN</sub> , full load and after warm-up unless otherwise stated)	
Parameter	Condition	Value
Output Accuracy		±2.0% typ.
Line Regulation	low line to high line, full load	±0.5% typ.
Load Regulation (7)	10% to 100% load	2.0% typ.
Transient Response	25% load step change	4.0% max.
	recovery time	500μs typ.

Note7: Operation below 10% load will not harm the converter, but specifications may not be met.

#### Deviation vs. Load





# RACM140E-K Series ♦ AC/DC Power Supply 140W (210W/10s) ♦ Input: 100V-240VAC



PROTECTIONS (measured @ T <sub>AMB</sub> = 25°C, nom. \	$I_{\rm IN}$ , full load and	d after warr	n-up unless otherwi	se stated)
Parameter	Туре			Value
Internal Input Fuse (8)	dua	I-fusing (line	& neutral)	2x T6.3A, slow blow type
Short Circuit Protection (SCP)		below 100	mΩ	hiccup mode
			RACM140E-12SK; RACM140E-15SK	30VDC max.
Over Voltage Protection (OVP)	hiccup mod	de	RACM140E-24SK	40VDC max.
			RACM140E-36SK	48VDC max.
			RACM140E-48SK	65VDC max.
Over Veltage Cetages (OVO)	6	according to 6	61558	OVC III (2000m)
Over Voltage Category (OVC)	according to 60601-1, 62368-1, 60335-1			OVC II (5000m)
Over Current Protection (OCP)				<200%, hiccup mode
DC ON LED				green light, output voltage present
Class of Equipment		with PE conn	ection	Class I
location Voltage (9)	1/0 1 0 /0	4	according to 61558	4.2kVAC
Isolation Voltage <sup>(9)</sup>	I/P to O/P	1 minunte	according to 62368-1	4kVDC
Isolation Resistance	I/F	o to O/P, V <sub>ISO</sub> =	500VDC	1GΩ min.
Isolation Capacitance	I/P	to 0/P, 100k	Hz/0.1V	100pF max.
Insulation Grade	I/P to O/P		Р	reinforced
Means of Protection	I/P to O/P		P	2MOPP
Medical Device Classification	built-in power supply		supply	designed to support type BF applications
Touch Current	normal condition			<100μA
Touch Current	single fault			<500µА
Earth Leakage Current (Input and Output to Earth (GND)	264VAC/63	Hz	normal condition	<300µА

Note8: For system integration with DC operation, consider a suitable DC fuse in front of the input.

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

ENVIRONMENTAL (measured @ T <sub>AI</sub>	MB= 25°C, nom. VIN, full load and	after warm-up	o unless otherwise s	tated)
Parameter	Condition			Value
Operating Ambient Temperature Range	@ natural convection (0.1m/s)	refer to "I	Derating Graph"	-40°C to +90°C
Temperature Coefficient				±0.02%/K
Operating Altitude (10)	according to 62368	5000m (OVC II)		
Operating Altitude (10)	accordii	2000m (OVC III)		
Operating Humidity	non-c	ondensing		90% RH max.
Pollution Degree				PD2
Vibration	according to MIL-STD-202G		10-500Hz, 2G 10min./1cycle, period, 60min. each along x,y,z axes	
MTBF	according to MIL-HDBK-217, G.B.	T <sub>A</sub>	<sub>ив</sub> = +25°С	440 x 10 <sup>3</sup> hours
IVII DE	according to Mile-HDBK-217, G.B.	T <sub>AMB</sub> = +40°C		400 x 10 <sup>3</sup> hours
Dogian Lifetime	230VAC, full load	T <sub>AMB</sub> = +45°C	RACM140E-12SK	30 x 10 <sup>3</sup> hours
Design Lifetime	ZOUVAO, IUII IUdu	T <sub>AMB</sub> = +50°C	others	50 x 10 <sup>3</sup> hours

Note10: 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.

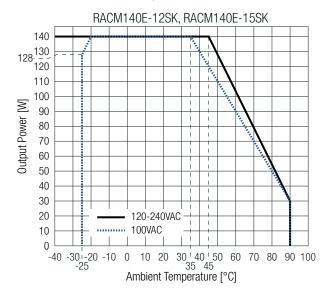
140W (210W/10s) ♦ Input: 100V-240VAC

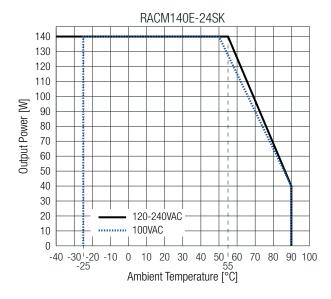


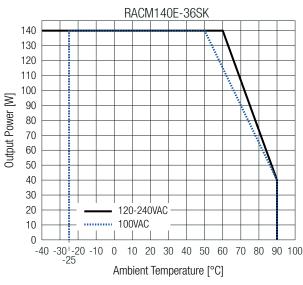
ENVIRONMENTAL (measured @ T<sub>AMB</sub>= 25°C, nom. V<sub>IN</sub>, full load and after warm-up unless otherwise stated)

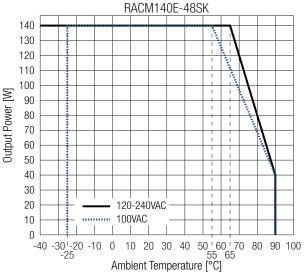
#### **Derating Graph**

(@ Chamber and natural convection 0.1 m/s)









#### PEAK LOAD CAPABILITY

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

Parameters	Units	RACM140E-12SK RACM140E-15SK	RACM140E-24SK	RACM140E-36SK RACM140E-48SK
P <sub>rated</sub> = rated output power [W]		refer to "Derating Graph"		
P <sub>P</sub> = peak output power	[W]	180W max.	210W max.	210W max.
P <sub>r</sub> = recovery output power	[W]	use calculation below		
$t_1$ = peak time set	[s]	10s max.		
t <sub>2</sub> = recovery time	[s]	min. 5 x t <sub>1</sub>		
k= heat dissipation factor	[]	1.1	1.0	0.9

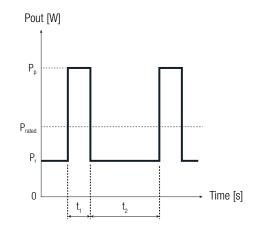
#### Practical Example (RACM140E-48SK for still air convection):

Take the RACM140E-48SK at 240VAC input voltage and at  $T_{\text{AMB}}$ = 70°C, with still air convection.

$$\begin{array}{ll} P_p & = 210W \\ P_{rated} = 120W \\ t_1 & = 10s \\ t_2 & = 5 \text{ x } t_1 \\ k & = 1.0 \end{array} \qquad \textbf{P_r} = \begin{array}{ll} \underline{120 \text{ x } (10 + 50) - (210 \text{ x } 10)}} \\ \underline{50 \text{ x } 1} \\ \end{array} = \underline{102W}$$

#### Calculation:

$$\mathbf{P_r} = \frac{P_{\text{rated}} \ x \ (t_1 + t_2) - (P_P \ x \ t_1)}{t_2 \ x \ k}$$



# RACM140E-K Series ♦ AC/DC Power Supply 140W (210W/10s) ♦ Input: 100V-240VAC



SAFETY & CERTIFICATIONS		
Certificate Type (Safety)	Report Number	Standard
Audio/Video, information and communication technology equipment - Part1: Safety requirements	085-230345101	EN IEC 62368-1:2020+A11:2020
Audio/Video, information and communication technology equipment - Safety requirements (CB)	-000	IEC62368-1:2018 3rd Edition
Medical electrical equipment Part 1: General requirements for basic safety and essential performance (CB	230731004	IEC60601-1:2005+AM2:2020 Edition 3.2
Medical electrical equipment Part 1: General requirements for basic safety and essential performance	230/31004	EN60601-1:2006+A2:2021
Madical electrical equipment Part 1: Caparal requirements for basis safety and essential parformance	E511305-D6003-UL	ANSI/AAMI ES60601-1:2005+A2:2010/(R)2012
Medical electrical equipment Part 1: General requirements for basic safety and essential performance	E311303-D0003-0L	CAN/CSA-C22.2 No. 60601-1:14 3rd Edition
Llourophold and similar electrical appliances. Cofety. Part 1, Coneral requirements		IEC60335-1:2010+C1:2016 5th Edition
Household and similar electrical appliances – Safety – Part 1: General requirements	64.260.23.03453.01	EN60335-1:2012+A15:2021
Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	- 04.200.23.03433.01	EN62233:2008
Safety of power transformers, power supplies, reactors and similar products for supply voltages up to 1100 V 3rd Edition		IEC61558-1:2017 3rd Edition
Safety of power transformers, power supplies, reactors and similar products for supply voltages up to 1100 V 3rd Edition	005 000045004 100	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	-085-230345201-100	IEC61558-2-16:2009+A1:2013 1st Edition
Safety of power transformers, power supplies, reactors and similar products for supply voltages up to 1100 V Part 2: Particular requirements		EN61558-2-16:2009+A1:2013
RoHS2		RoHS-2011/65/EU + AM-2015/863

NOI 102		NUI 13-20 1 1/03/LU + AIVI-20 13/003
EMC Compliance according to EN60601-1-2	Condition	Standard
Medical electrical equipment Part 1-2: General requirements for basic safety and essential performance (11)		EN60601-1-2:2015+A1:2021
ESD Electrostatic discharge immunity test	Contact ±4, 8kV	IEC61000-4-2:2009 EN61000-4-2:2008
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 (11)	L, N, PE, L-N, L-PE, N-PE, L-N-PE: ±2kV	IEC/EN61000-4-4:2012
Surge Immunity (11)	L-N: ±0.5, 1, 2kV L-PE, N-PE: ±4kV	IEC/EN61000-4-5:2014 + A1:2017
Immunity to conducted disturbances, induced by radio-frequency fields	3, 6Vrms (0.15-80MHz)	IEC61000-4-6:2013 EN61000-4-6:2014
Power Magnetic Field Immunity	30A/m	EN61000-4-8:2010
Voltage Dips and Interruptions	Dips: 100% (0.5P, 1.0P); 30% Interruption: 100%	EN61000-4-11:2004 + A1:2017
Limits of Harmonic Current Emissions	P <sub>OUT</sub> = 112W	EN61000-3-2:2005+A1+A2:2009
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013
EMC Compliance according to EN61204-3	Condition	Standard / Criterion
Low voltage power supplies, d.c. output Part 3: Electromagnetic compatibility (EMC) (11)		EN IEC 61204-3:2018, Class B
ESD Electrostatic discharge immunity test	Contact: ±4kV	EN61000-4-2:2008, Criteria A IEC61000-4-2:2009, 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 (11)	L, N, PE, L-N, L-PE, N-PE, L-N-PE: ±2kV	IEC/EN61000-4-4:2012, Criteria A
Surge Immunity (11)	L-N: ±0.5, 1, 2kV L-PE, N-PE: ±4kV	IEC/EN61000-4-5:2014 + A1:2017 Criteria A

# RACM140E-K Series ♦ AC/DC Power Supply 140W (210W/10s) ♦ Input: 100V-240VAC



### SAFETY & CERTIFICATIONS

	T	
EMC Compliance according to EN61204-3	Condition	Standard / Criterion
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, Crtieria A
Voltage Dip	100% (0.5P, 1.0P); 20%, 30%, 60%	EN61000-4-11:2004 + A1:2017, Criteria A
Voltage Interruptions	100%	EN61000-4-11:2004 + A1:2017, Criteria B
Limits of Harmonic Current Emissions	P <sub>OUT</sub> = 112W	EN61000-3-2:2005+A1+A2:2009
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013
EMC Compliance according to EN35032/55035	Condition	Standard / Criterion
Electromagnetic compatibility of multimedia equipment – Emission Requirements		EN55032:2015+A11:2020, CLass B
Electromagnetic compatibility of multimedia equipment – Immunity requirements		EN55035:2017+A11:2020
ESD Electrostatic discharge immunity test	Contact: ±4kV	EN61000-4-2:2008, Criteria A IEC61000-4-2:2009, 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 (11)	L, N, PE, L-N, L-PE, N-PE, L-N-PE: ±2kV	IEC/EN61000-4-4:2012, Criteria A
Surge Immunity (11)	L-N: ±2kV L-PE, N-PE: ±4kV	IEC/EN61000-4-5:2014 + A1:2017, Criteria A
Immunity to conducted disturbances, induced by radio-frequency fields	10Vrms (0.15-10MHz) 3-1Vrms (10-30MHz) 1Vrms (30-80MHz	IEC61000-4-6:2013, Criteria A EN61000-4-6:2014, Criteria A
Power Magnetic Field Immunity	1A/m	IEC61000-4-8:2009, Criteria A EN61000-4-8:2010, Crtieria A
Voltage Dip	100% (0.5P); 30%	EN61000-4-11:2004 + A1:2017, Criteria A
Voltage Interruptions	100%	EN61000-4-11:2004 + A1:2017, Criteria B
Limits of Harmonic Current Emissions	P <sub>OUT</sub> = 112W	EN61000-3-2:2005+A1+A2:2009
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013
Limitations on the amount of electromagnetic intererence allowed from digital and electronic devices		FCC 47 CFR Part 15 Subpart B, Class B

Note11: Valid under floating load conditions and with earth referenced output as well

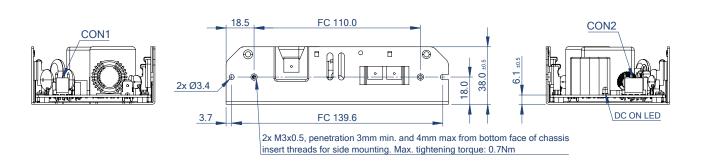
DIMENSION & PHYSICAL CHARACTERISTICS					
Parameter	Туре	Value			
Materials	PCB	FR4, (UL94-V0)			
iviaterials	chassis	aluminum			
	"/0F"	147.0 x 81.5 x 38.0mm			
Dimension (LxWxH)	701	5.7 x 3.2 x 1.5 inch			
Differsion (EXWALL)	"/ENC"	147.0 x 81.5 x 40.0mm			
		5.7 x 3.2 x 1.6 inch			
	"/OF"	311g typ.			
Weight	701	0.68 lbs			
	"/ENC"	348g typ.			
	/LING	0.76 lbs			

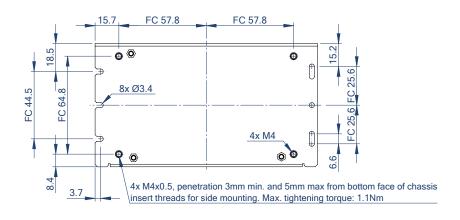
140W (210W/10s) ♦ Input: 100V-240VAC



#### **DIMENSION & PHYSICAL CHARACTERISTICS**

# Dimension Drawing "/OF" version (mm) DETAIL CON1 147.0 ±1.0 126.1 25.0 DETAIL CON2 15.4 116.3





#### **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	+Vout	4 Pins	
6,7	-Vout	with 3.96mm pitch	
FC= Fixing centers			

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

#### **Compatible Connector**

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

Rev. 1-2024

Tolerance:  $xx.x = \pm 0.5$ mm

 $xx.xx = \pm 0.25mm$ 

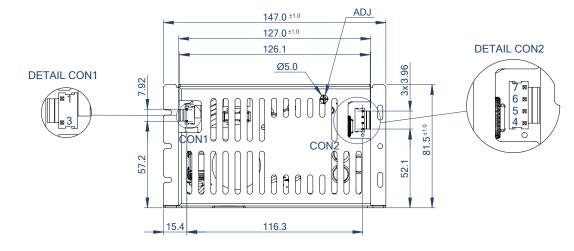
140W (210W/10s) ♦ Input: 100V-240VAC

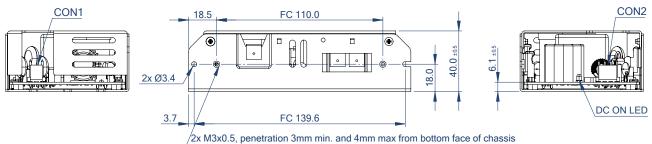


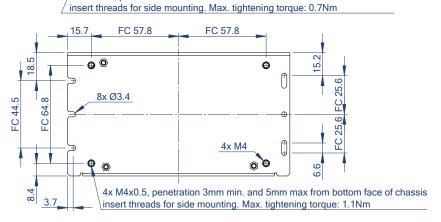
#### **DIMENSION & PHYSICAL CHARACTERISTICS**

Dimension Drawing "/ENC" version (mm)









#### **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	+Vout	4 Pins	
6,7	-Vout	with 3.96mm pitch	
FC= Fixing centers			

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

#### **Compatible Connector**

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

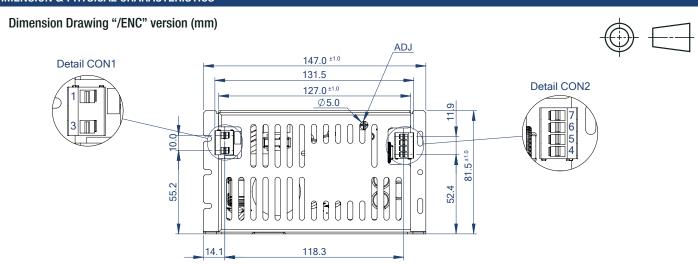
Tolerance:  $xx.x = \pm 0.5$ mm

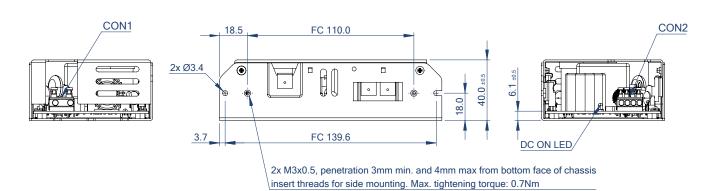
 $xx.xx = \pm 0.25mm$ 

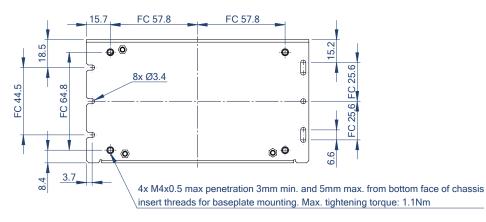
140W (210W/10s) ♦ Input: 100V-240VAC



#### **DIMENSION & PHYSICAL CHARACTERISTICS**







#### **Push-in Terminal Information**

AC Input (CON1)			
#	<b>Function</b>	Connector	
1	VAC in (N)	Solid: 0.5-2.5mm <sup>2</sup>	
		Flexible: 0.5-1.5mm <sup>2</sup>	
3	VAC in (L)	Flexible with ferrule: 0.5-1.0mm <sup>2</sup>	

DO 0 1 1 (00110)

DC Output (CON2)					
#	<b>Function</b>	Connector			
1.5	4, 5 +Vout 6,7 -Vout	Solid: 0.5-1.5mm <sup>2</sup>			
, -		Flexible: 0.5-1.5mm <sup>2</sup>			
6,7		Flexible with ferrule: 0.5-1.0mm <sup>2</sup>			
Stripping length: 10mm					

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

Tolerance:  $xx.x = \pm 0.5$ mm

 $xx.xx = \pm 0.25mm$ 

FC= Fixing centers

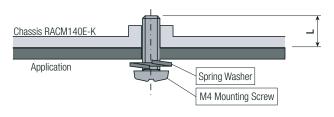
140W (210W/10s) ♦ Input: 100V-240VAC



## INSTALLATION & APPLICATION

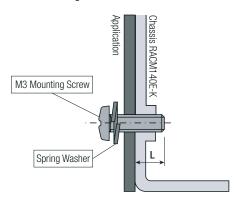
#### **Mounting Equipment**

**Baseplate Mounting** 



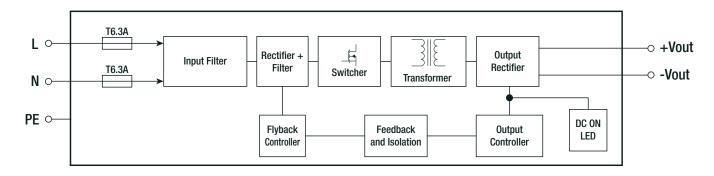
Recommended mounting tightening torque= 1.1Nm. L= 3mm min. / 5mm max.

#### Side Mounting



Recommended mounting tightening torque= 0.7Nm. L= 3mm min. / 4mm max.

#### **BLOCK DIAGRAM**



PACKAGING INFORMATION			
Parameter	Туре		Value
Deckaging Dimension (LyMM)	trav	open frame "/OF"	410.0 x 360.0 x 55.0mm
Packaging Dimension (LxWxH)	tray	enclosed "/ENC"	350.0 x 360.0 x 65.0mm
D. I	open fr	ame "/OF"	8pcs
Packaging Quantity	enclos	ed "/ENC"	6pcs
Storage Temperature Range			-40°C to +90°C
Storage Humidity	non-c	ondensing	95% RH max.

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