## **Features**

## Regulated Converter

- 1.6"x3", optional 2"x3", low profile
- 40W power from -40°C up to +60°C ambient
- Operating temp. up to +85°C with derating.
- 4 kVac/1min reinforced isolation
- 2MOPP medical certified, B and BF compliant
- 5000m (medical/ITE) operating altitude
- Class B EMC filter built-in

## **Description**

The ultra-compact versatile, industrial + household + medical grade AC/DC converter series RACM40-K delivers 40 watts of output power from -40°C to +60°C with natural air convection only, and up to +85°C with derating or forced air cooling. With a clear focus on extended thermal performance for systems where space is limited, these 1.6" x 3" compact modules are designed to gain highest overall efficiency levels over the full output load range from universal AC inputs. The RACM40-K has ANSI/AAMI/IEC 60601-1 medical safety and EN 60601-1-2 medical EMC certifications and offers 4kVac/1 min isolation, 2MOPP, and is designed to meet B and BF requirements. It is additionally certified (CB Report) IEC/EN 62368-1; IEC61010 and IEC61558-1/-2-16 for industrial applications and IEC/EN 60335-1 for household appliances. The robust built-in class B EMC filter has sufficient margin to allow either Class II or Class I PELV with grounded output installations. A range of mechanical fixing options makes the RACM40-K suitable for many different mounting conditions: the standard chassis-mount part mates with Molex connectors, and the /PCB option permits direct installation in printed circuit boards. Additionally, a 2" x 3" footprint for backward-compatibility retrofit for legacy designs is available on request.

| <b>Selection Guide</b> |                                 |                            |                           |  |                        |
|------------------------|---------------------------------|----------------------------|---------------------------|--|------------------------|
| Part<br>Number         | Input Voltage<br>Range<br>[VAC] | Output<br>Voltage<br>[VDC] | Output<br>Current<br>[mA] | Efficiency<br>typ. <sup>(1)</sup><br>[%] | Output<br>Power<br>[W] |
| RACM40-05SK/0F (2, 3)  | 80-264                          | 5                          | 6000                      | 87                                       | 30                     |
| RACM40-12SK/0F (2, 3)  | 80-264                          | 12                         | 3334                      | 90                                       | 40                     |
| RACM40-15SK/0F (2, 3)  | 80-264                          | 15                         | 2667                      | 90                                       | 40                     |
| RACM40-18SK/0F (2, 3)  | 80-264                          | 18                         | 2222                      | 90                                       | 40                     |
| RACM40-24SK/0F (2, 3)  | 80-264                          | 24                         | 1667                      | 90                                       | 40                     |
| RACM40-36SK/0F (2, 3)  | 80-264                          | 36                         | 1111                      | 90                                       | 40                     |
| RACM40-48SK/0F (2, 3)  | 80-264                          | 48                         | 833                       | 90                                       | 40                     |

### Notes:

Note1: Efficiency is tested at nominal input and full load at +25°C ambient

## **Model Numbering**



### Notes:

Note2: "/OF" = standard 1.6"x3" open frame version with standard header connectors

"/OF/PCB-T" = 1.6"x3" open frame with PCB mounting pins

"0F/2x3" = 2"x3" open frame version with standard header connector (12 and 24Vout versions available; 5, 15, 18, 36 and 48Vout versions with MOQ ≥1000pcs)

Note3: without suffix, standard single pack (1pcs/cardboard box)

add suffix "-CTN" for project packaging (4 layers of tray within a carton, for "/OF" only + MOQ ≥1024pcs) for detail information, refer to "PACKAGING INFORMATION"

For other case/connection/footprint options, please contact RECOM technical support

## Ordering Examples:

RACM40-05SK/0F 5Vout 1.6" x 3" open frame standard header connector 1pcs/cardboard box RACM40-24SK/0F/PCB-T 24Vout 1.6" x 3" open frame PCB mounting pins 16pcs/tray packaging RACM40-12SK/0F/2x3 12Vout 2" x 3" open frame standard header connector 1pcs/cardboard box RACM40-12SK/0F-CTN 12Vout 2" x 4" open frame standard header connector 64pcs/carton (MOQ= 1024pcs)



## RACM40-K/OF

# 40 Watt Open Frame 1.6"x3" & 2"x3" Single Output





















IEC/EN62368-1 (pending)
ANSI/AAMI ES60601-1 certified
CSA/CAN-C22.2 No. 60601-1:14 certified
IEC/EN60601-1 certified
IEC/EN60335-1 (pending)
IEC/EN61010-1 (pending)

EN62233 (pending) IEC/EN61558-1 (pending) IEC/EN61558-2-16 (pending)

EN55032/35 compliant IEC/EN60601-1-2 compliant

CB Report (pending)

www.recom-power.com REV: 0/2020 PA-1



## **Series**

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

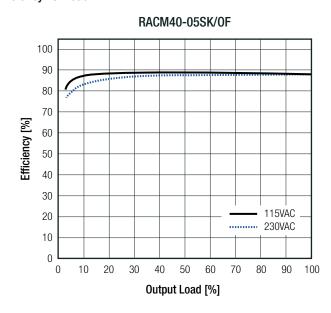
| Parameter   | Condition        |                              | Min.                 | Тур.   | Max.      |         |
|---|------------------|------------------------------|----------------------|--------|-----------|---------|
| N   |                  | 60Hz                         |                      | 100VAC | 7.        |         |
| Nom. Input Voltage  |                  | 50Hz                         | :                    |        |           | 240VAC  |
| Innut Voltage Dange (3)   | 47-63Hz<br>DC    |                              | 80VAC                |        | 264VAC    |         |
| Input Voltage Range (3)   |                  |                              | 120VDC               |        | 370VDC    |         |
| Input Current   | 115VAC<br>230VAC |                              | ıC                   |        |           | 1000mA  |
| iliput ourrent  |                  |                              |                      |        | 500mA     |         |
| Inrush Current  | cold start       |                              | 115VAC               |        |           | 15A     |
| illiusii Guireit  | Cold Start       |                              | 230VAC               |        |           | 30A     |
| 5 D O   | 115VAC           | RACM40 ii                    | nput power max. 0.5W | 0.3W   |           |         |
| ErP Standby Mode Conformity:                                    | TIOVAG           | RACM40 ii                    | nput power max. 1.0W | 0.7W   |           |         |
| (Maximum output power available for stated maximum input power) | 230VAC           | RACM40 input power max. 0.5W |                      | 0.27W  |           |         |
|   | RACM40           |                              | nput power max. 1.0W | 0.65W  |           |         |
| No load Power Consumption                                       |                  | 230VAC                       |                      |        | 100mW     |         |
| Input Frequency Range   | AC Input         |                              | 47Hz                 |        | 63Hz      |         |
| Minimum Load  |                  |                              | 0%                   |        |           |         |
| Power Factor  |                  | 115VA                        | ı,C                  | 0.6    |           |         |
| Power Factor  |                  | 230VAC                       |                      | 0.5    |           |         |
| Start-up Time   |                  |                              |                      | 160ms  |           |         |
| Rise Time   |                  |                              |                      |        | 70ms      |         |
| Hold up Time  | 115VAC<br>230VAC |                              | 16ms                 |        |           |         |
| Hold-up Time  |                  |                              | 60ms                 |        |           |         |
| Internal Operating Frequency                                    | 1(               | 00% load at r                | ominal Vin           |        | 100kHz    |         |
| Output Dipple and Naise (4)                                     | 201117           | DW                           | 5Vout                |        |           | 80mVp-p |
| Output Ripple and Noise (4)                                     | 20MHz BW others  |                              |                      |        | 1% of Vou |         |

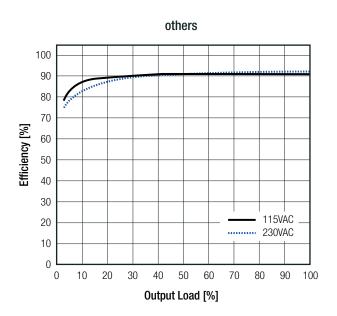
### Notes:

Note3: The products were submitted for safety files at AC-Input operation

Note4: Measurements are made with a  $0.1\mu F$  MLCC &  $10\mu F$  E-cap in parallel across output. (low ESR)

## Efficiency vs. Load





continued on next page



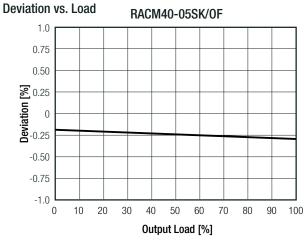
## **Series**

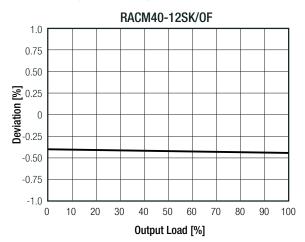
## Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

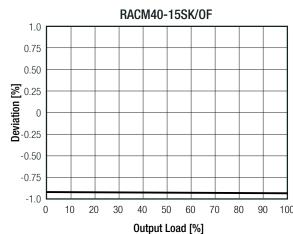
| REGULATIONS         |                       |                   |                           |
|---------------------|-----------------------|-------------------|---------------------------|
| Parameter           | Cond                  | dition            | Value                     |
| Output Accuracy     | 1009                  | % load            | ±1.0% max.                |
| Line Regulation     | low line to high line | 5Vout others      | ±0.1% typ.<br>±0.05% typ. |
| Load Regulation (5) | 100/ to 1000/ load    | 5, 12, 15, 18Vout | 0.7% typ.                 |
|                     | 10% to 100% load      | 24, 36, 48Vout    | 0.5% typ.                 |
| Transient Deepense  | 25% load              | step change       | 3.0% max.                 |
| Transient Response  | recove                | ery time          | 500µs max.                |

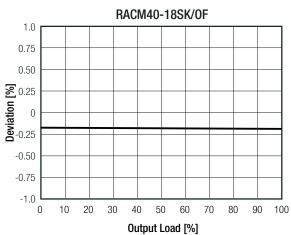
### Notes:

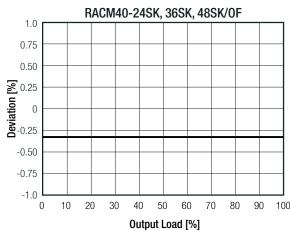
Note5: Operation below 10% load will not harm the converter, but specifications may not be met













## **Series**

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

| PROTECTIONS                              |                       |                  |                            |
|--|-----------------------|------------------|----------------------------|
| Parameter                                | Type/C                | ondition         | Value                      |
| Input Fuse                               | inte                  | ernal            | T3.15A, slow blow type     |
| Short Circuit Protection (SCP)           | below                 | 100mΩ            | hiccup mode, auto recovery |
| Over Voltage Protection (OVP)            |                       |                  | 105% - 120%, hiccup mode   |
| Output Reverse Voltage Protection        | overrun rate of       | nominal output   | 107% - 145%, hiccup mode   |
| Over Current Protection (OCP)            |                       |                  | 130% - 180%, hiccup mode   |
| Thermal Shutdown                         | TC poir               | nt IC 101        | +130°C                     |
| Over Voltage Category (OVC)              |                       |                  | OVCII                      |
| Class of Equipment                       |                       |                  | Class II                   |
| Isolation Voltage (safety certified) (6) | I/P to O/P            | 1 minute         | 4kVAC                      |
| Isolation Resistance                     | I/P to O/P, Isolation | n Voltage 500VDC | 1GΩ min.                   |
| Isolation Capacitance                    | I/P to O/P, 1         | 00KHz/0.1V       | 100pF max.                 |
| Insulation Grade                         |                       |                  | reinforced                 |
| Means of Protection                      | 277VAC wo             | rking voltage    | 2MOPP                      |
| Notes                                    | :                     |                  |                            |

| _ | • |                            |   |  |
|---|---|----------------------------|---|--|
|   | Note6:                                  | For repeat Hi-Pot testing, | reduce the time and/or the test voltage |  |

| ENVIRONMENTAL               |  |             |                |  |
|-----------------------------|--|-------------|----------------|--|
| Parameter                   | Condition                              |             |                | Value  |
| Operating Temperature Range | @ natural convection 0.1m/s            | refer to "D | erating Graph" | -40°C to +85°C   |
| Temperature Coefficient     |  |             |                | ±0.02%/K   |
| Operating Altitude (7)      | according to 62368-1/61010 and 60601-1 |             | 0601-1         | 5000m  |
| Operating Humidity          | non-condensing                         |             |                | 95% RH max.  |
| Pollution Degree            |  |             |                | PD2  |
| Vibration                   | according to M                         | IL-STD-202G |                | 10-500Hz, 2G 10min./1cycle, period 60min. along x,y,z axes |
| MTBF                        | according to MIL-HDBK-21               | 7E G B      | +25°C          | >1006 x 10 <sup>3</sup> hours                              |
| WITDI                       | according to MIL-HDDN-21               | 71, U.D.    | +40°C          | >790 x 10 <sup>3</sup> hours                               |
| Design Lifetime             | nom. Vin= 230                          | )VAC, +40°C |                | >98 x 10 <sup>3</sup> hours                                |

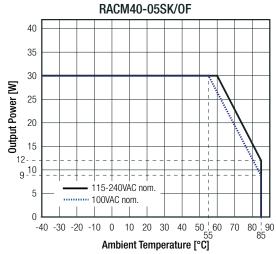
### Notes:

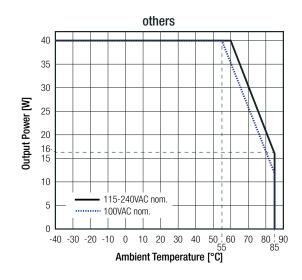
Note7: Recognized by safety agency for safe operation up to 5000m. High altitude operation may impact the performance and lifetime.

Please contact RECOM tech support for advice

## Derating Graph (9)

(@ Chamber and natural convection 0.1m/s)





Notes:

Note9: Output power derating for Line-input of less than 90VAC (derate linearly from 100% at 90VAC to 80% at 80VAC)



**Series** 

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

| SAFETY AND CERTIFICATIONS  |   |  |
|--|---|--|
| Certificate Type (Safety)  | Report / File Number  | Standard   |
| Medical electrical equipment Part 1: General requirements for basic safety and essential performance   |   | ANSI/AAMI ES60601-1:2005 + A2:2010/2012 CAN/CSA-C22.2 No. 60601-1:14, 3rd Edition  |
| Medical electrical equipment Part 1: General requirements for basic safety and essential performance   | E511305-D1001-1/A0/C0-UL  | IEC60601-1:2005, 3rd Edition + AM1:2012<br>EN60601-1:2006 + A1:2013  |
| Audio/Video, information and communication technology equipment - Safety requirements (CB Scheme)  | pending   | IEC62368-1:2014 2nd Edition  |
| Audio/Video, information and communication technology equipment - Safety requirements (LVD)  | pending   | EN62368-1:2014 + A11:2017  |
| Household and similar electrical appliances — Safety — Part 1: General requirements  | pending   | IEC60335-1:2010 5th Edition + C1:2016  |
| Household and similar electrical appliances — Safety — Part 1: General requirements (LVD)  | pending   | EN60335-1:2012 + A14:2019  |
| Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements (CB Scheme)  | pending   | IEC61010-1:2010+A1:2016, 3rd Edition   |
| Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements  | pending   | EN61010-1:2010+A1:2019   |
| Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure   | pending   | EN62233:2008   |
| Safety of power transformers, power supplies, reactors & similar products for supply voltages up to 1100V (CB Scheme)  | pending   | IEC61558-1:2005 2nd Edition + A1:2009  |
| Safety of power transformers, power supplies, reactors & similar products for supply voltages up to 1100V  | pending   | EN61558-1:2005 + A1:2009   |
| Safety of power transformers, power supplies, reactors & similar products for supply voltages up to 1100 V Part 2: Particular requirements (CB Scheme)   | pending   | IEC61558-2-16:2009 1st Edition + A1:2013   |
| Safety of power transformers, power supplies, reactors & similar products for supply voltages up to 1100 V Part 2: Particular requirements   | pending   | EN61558-2-16:2009 + A1:2013  |
| RoHS2  |   | RoHS 2011/65/EU + AM2015/863   |
| EMC Compliance (Medical)   | Condition   | Standard / Criterion   |
| Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests 4th Ed. | 4789293779  | EN60601-1-2:2015   |
| ESD Electrostatic discharge immunity test  | Air ±2, 4, 8, 15kV;<br>Contact ±8kV   | IEC61000-4-2:2008 , Criteria A<br>EN61000-4-2:2009, Criteria A   |
| Radiated, radio-frequency, electromagnetic field immunity test   | 9V/m (710, 745, 780, 5240, 5500, 5785MHz) 10V/m (80-2700MHz) 27V/m (385MHz) 28V/m (450, 810, 870, 930, 1720, 1845, 1970, 2450MHz) | IEC/EN61000-4-3:2006 + A2:2010, Criteria A   |
| Fast Transient and Burst Immunity  | AC Por:t L, N, L-N ±2kV   | IEC/EN61000-4-4:2012, Criteria A   |
| Surge Immunity   | AC Port L-N: ±0.5, 1, 2kV<br>L-PE, N-PE: ±0.5, 1, 2, 4kV  | IEC/EN61000-4-5:2014, Criteria B   |
| Immunity to conducted disturbances, induced by radio-frequency fields  | AC Port: 3Vrms (0.15-80MHz)<br>6Vrms (IMS Band)   | IEC61000-4-6:2013, Criteria A<br>EN61000-4-6:2014, Criteria A  |
| Power Magnetic Field Immunity  | 30A/m   | IEC61000-4-8:2009, Criteria A<br>EN61000-4-8:2010, Criteria A  |
| Voltage Dips and Interruptions   | Voltage Dips 30% Voltage Dips 100% (0.5P) Voltage Dips 100% (1.0P) Voltage Interruptions 100%                                     | IEC/EN61004-11:2004, Criteria A<br>IEC/EN61004-11:2004, Criteria A<br>IEC/EN61004-11:2004, Criteria A<br>IEC/EN61004-11:2004, Criteria B |
| continued of   | on next page  |  |



**Series** 

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

| EMC Compliance (Industrial)  | Condition   | Standard / Criterion   |
|--|---|--|
| Electromagnetic compatibility of multimedia equipment – Emission Requirements  | L00000010044DE  | EN55032:2015   |
| Electromagnetic compatibility of multimedia equipment – Immunity requirements  | LCS200616044BE  | EN55035:2017   |
| ESD Electrostatic discharge immunity test  | Air ±2, 4, 8kV;   | IEC61000-4-2:2008, Criteria A  |
| Libertiostatic discriarge infinitinity test  | Contact ±2, 8kV   | EN61000-4-2:2009, Criteria A   |
| Radiated, radio-frequency, electromagnetic field immunity test   | 3V/m (4800-1000MHz, 1800, 2600, 3500, 5000MHz)  | IEC/EN61000-4-3:2006 + A2:2010, Criteria A   |
| Fast Transient and Burst Immunity  | AC Port: L, N, L-N ±1kV   | IEC/EN61000-4-4:2012, Criteria B   |
| Surge Immunity   | AC Port: L-N: ±1kV  | IEC/EN61000-4-5:2014, Criteria B   |
| Immunity to conducted disturbances, induced by radio-frequency fields  | AC Port: 3Vrms (0.15-80MHz)<br>3Vrms (10-30MHz)<br>1Vrms (30-80MHz)   | IEC61000-4-6:2013, Criteria A<br>EN61000-4-6:2014, Criteria A  |
| Power Magnetic Field Immunity  | 1A/m  | IEC61000-4-8:2009, Criteria A<br>EN61000-4-8:2010, Criteria A  |
| Voltage Dips and Interruptions   | Voltage Dips 30%<br>Voltage Dips 100%<br>Voltage Interruptions 100%   | IEC/EN61004-11:2004, Criteria C<br>IEC/EN61004-11:2004, Criteria B<br>IEC/EN61004-11:2004, Criteria C                                    |
| EMC Compliance (Low voltage power supply)  | Condition   | Standard / Criterion   |
| Low voltage power supplies, d.c. output Part 3: Electromagnetic compatibility (EMC)  | LCS200616049BE  | IEC/EN61204-3:2018   |
| ESD Electrostatic discharge immunity test  | Air ±2, 4, 8kV;   | IEC61000-4-2:2008, Criteria A  |
| Lob Lieutiostatic discharge illinidity test  | Contact ±2, 8kV   | EN61000-4-2:2009, Criteria A   |
| Radiated, radio-frequency, electromagnetic field immunity test   | 10V/m (80-1000MHz)<br>3V/m (1400-2000MHz)<br>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 B   |
| Surge Immunity   | AC Port: L-N: ±1kV  | IEC/EN61000-4-5:2014, Criteria B   |
| Immunity to conducted disturbances, induced by radio-frequency fields  | AC Port: 10Vrms (0.15-80MHz)  | IEC61000-4-6:2013, Criteria A<br>EN61000-4-6:2014, Criteria A  |
| Power Magnetic Field Immunity  | 30A/m   | IEC61000-4-8:2009, Criteria A<br>EN61000-4-8:2010, Criteria A  |
| Voltage Dips and Interruptions   | Voltage Dips 20, 30,60%<br>Voltage Dips 100% (0.5P)<br>Voltage Dips 100% (1.0P)<br>Voltage Interruptions 100% | IEC/EN61004-11:2004, Criteria C<br>IEC/EN61004-11:2004, Criteria B<br>IEC/EN61004-11:2004, Criteria B<br>IEC/EN61004-11:2004, Criteria C |
| Limits of Voltage Fluctuations & Flicker   |   | EN61000-3-3:2013   |
| Limitations on the amount of electromagnetic interference allowed from digital and electronic devices  |   | FCC 47 CFR Part 15 Subpart B, Class B  |
| Limitations on the amount of electromagnetic interference allowed from digital and electronic devices, industrial, scientific, and medical equipment |   | FCC 47 CFR Part 18   |

| Parameter         | Туре                  | Value                |
|-------------------|-----------------------|----------------------|
| Material          | PCB                   | FR4, (UL94 V-0       |
|                   | "/OF" type            | 78.3 x 40.6 x 25.5mm |
| Dimension (LxWxH) | "/PCB" type           | 78.3 x 40.6 x 29.1mm |
|                   | "/OF/2x3" type        | 78.3 x 53.0 x 25.5mm |
| Mainlet           | "/OF" and "/PCB" type | 74g typ              |
| Weight            | "/OF/2x3" type        | 80g typ              |

continued on next page



**Series** 

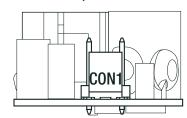
## **Specifications** (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

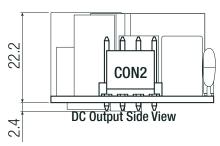
## Dimension Drawing "/OF" (mm) 6.10 <u>3.30</u> 0 18.12 **Top View** 6 ⊠ 5 ⊠ □ 3x 3.96 $\bigcirc$ □ 6x 1.14 80.2 68.9 Front View 25.5 max 1.6 78.3 FC 36.0 FC 36.0 31.39 2.3 Ф Ø2.0 IC101 4x Ø2.60 ՛⁄ ՛ํ **Bottom View** Ø 40.6 **3** Ø FC 17.1 Ø5.0 Ø4.0 $\Theta$ 0

38.36

| General tolerances according to ISO 2768-m (table for reference only) |            |  |
|---|------------|--|
| Dimension range   | Tolerances |  |
| 0.5 - 6 mm  | ±0.1 mm    |  |
| 6 - 30 mm   | ±0.2 mm    |  |
| 30 - 120 mm   | ±0.3 mm    |  |
| 120 - 400 mm  | ±0.5 mm    |  |

## **AC Input Side View**





## **Connector Information**

| Function    | Terminal   |
|-------------|--|
| AC Inp      | out (CON1)                                       |
| VAC in (N)  | 3 Pins (Pin2 removed)                            |
| VAC in (L)  | with 3.96mm pitch                                |
| DC Out      | tput (CON2)                                      |
| -VDC out    | 4 Pins   |
| +VDC out    | with 3.96mm pitch                                |
| ing centers |  |
|             | VAC in (N) VAC in (L)  DC Out  -VDC out +VDC out |

### **Compatible Connector**

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

continued on next page

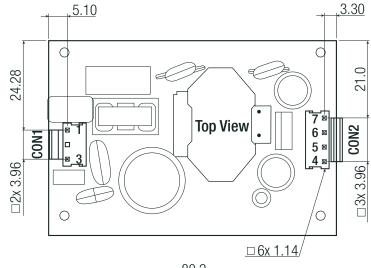
18.63

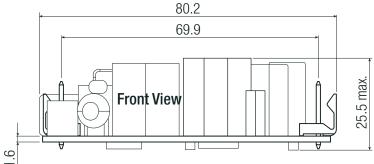


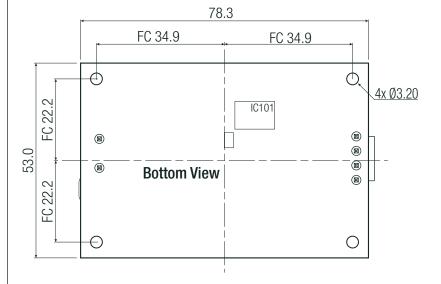
## **Series**

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

## Dimension Drawing "/0F/2x3" (mm)

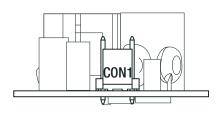




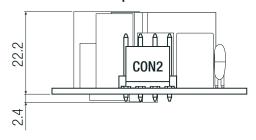


| General tolerances according to ISO 2768-m (table for reference only) |            |  |  |  |
|---|------------|--|--|--|
| Dimension range   | Tolerances |  |  |  |
| 0.5 - 6 mm  | m ±0.1 mm  |  |  |  |
| 6 - 30 mm   | ±0.2 mm    |  |  |  |
| 30 - 120 mm   | ±0.3 mm    |  |  |  |
| 120 - 400 mm  | ±0.5 mm    |  |  |  |

## **AC Input Side View**



## DC Output Side View



## Connector Information # Function

FC= fixing centers

| AC Input (CON1)  |            |                       |  |  |  |  |
|------------------|------------|-----------------------|--|--|--|--|
| 1                | VAC in (N) | 3 Pins (Pin2 removed) |  |  |  |  |
| 3                | VAC in (L) | with 3.96mm pitch     |  |  |  |  |
| DC Output (CON2) |            |                       |  |  |  |  |
| 4,5              | -VDC out   | 4 Pins                |  |  |  |  |
| 6,7              | +VDC out   | with 3.96mm pitch     |  |  |  |  |

Terminal

### **Compatible Connector**

| Companible Commector             |  |  |  |
|----------------------------------|--|--|--|
| Housing                          |  |  |  |
| Molex 41695 Series or equivalent |  |  |  |
| Crimp Terminal                   |  |  |  |
| Molex 2478 Series or equivalent  |  |  |  |

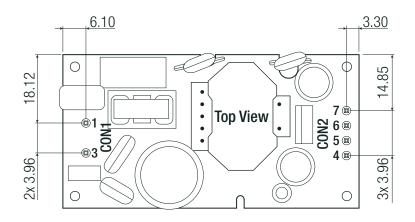
continued on next page

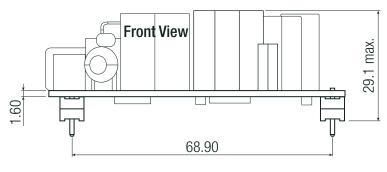


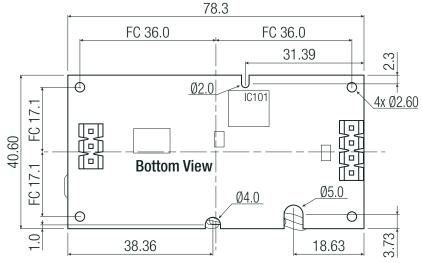
**Series** 

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

### Dimension Drawing "/OF/PCB" (mm)

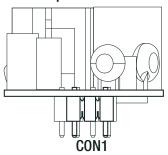




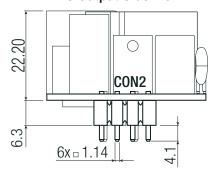


## General tolerances according to ISO 2768-m (table for reference only) Dimension range Tolerances 0.5 - 6 mm ±0.1 mm 6 - 30 mm ±0.2 mm 30 - 120 mm ±0.3 mm 120 - 400 mm ±0.5 mm

## **AC Input Side View**



## **DC Output Side View**



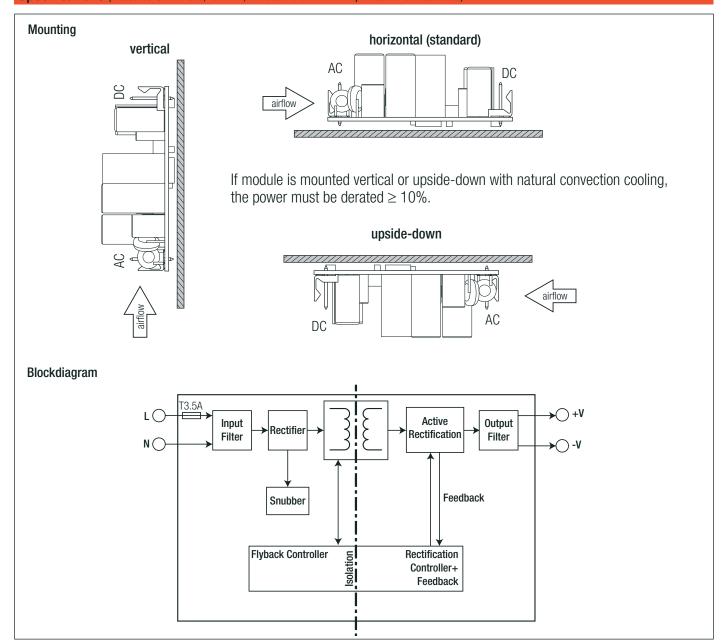
### Pin-header Information

| #                  | Function   | Terminal              |  |  |  |
|--------------------|------------|-----------------------|--|--|--|
| AC Input (CON1)    |            |                       |  |  |  |
| 1                  | VAC in (N) | 3 Pins (Pin2 removed) |  |  |  |
| 3                  | VAC in (L) | with 3.96mm pitch     |  |  |  |
| DC Output (CON2)   |            |                       |  |  |  |
| 4,5                | -VDC out   | 4 Pins                |  |  |  |
| 6,7                | +VDC out   | with 3.96mm pitch     |  |  |  |
| FC= fixing centers |            |                       |  |  |  |



**Series** 

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



| PACKAGING INFORMATION       |                               |                               |                         |  |  |  |
|-----------------------------|-------------------------------|-------------------------------|-------------------------|--|--|--|
| Parameter                   | Туре                          |                               | Value                   |  |  |  |
|                             | "/OF" and "/OF/2x3" type      | cardboard box (single pack)   | 65.0 x 55.0 x 95.0mm    |  |  |  |
| Packaging Dimension (LxWxH) | "/OF/PCB-T" type              | single tray (carton)          | 365.0 x 210.0 x 56.0mm  |  |  |  |
|                             | "/OF-CTN" type                | tray in carton (project pack) | 375.0 x 220.0 x 225.0mm |  |  |  |
|                             | "/OF" type and "/OF/2x3" type |                               | 1pcs                    |  |  |  |
| Package Unit                | "/OF/PCB-T" type              |                               | 16pcs                   |  |  |  |
|                             | "/OF-CTN" type, MOQ= 1024pcs  |                               | 64pcs                   |  |  |  |
| Storage Temperature Range   |                               |                               | -40°C to +90°C          |  |  |  |
| Storage Humidity            | non-condensing                |                               | 95% max.                |  |  |  |

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