

# Features

## Regulated Converter

- 2"x3" optional 2"x4", low profile design
- 60W power from -40°C up to +55°C ambient
- Operating temperature up to +85°C with derating
- 4 kVAC/1min reinforced isolation
- 2MOPP medical certified, B and BF compliant
- 4000m/5000m (medical/ITE) operating altitude
- Class B EMC filter built-in

### Description

The multi-purpose, industrial + household + medical grade AC/DC converter series RACM60-K/OF delivers 60 Watts of output power from -40°C to +55°C with natural air convection only, and up to +85°C with derating or forced cooling. With a clear focus on extended thermal performance for systems where space is limited, these 2" x 3" compact modules are designed to gain highest overall efficiency levels over the full output load range from universal AC inputs. The RACM60-K/OF has ANSI/AAMI/IEC 60601-1 medical safety and EN 60601-1-2 medical EMC certifications and offers 4kVAC/1 min isolation, 2MOPP and designed to meet B and BF requirements. It is additionally certified to IEC/EN62368-1(CB Report) and IEC61558-1/-2-16 for industrial applications and IEC/EN60335-1 for household appliances. The robust built-in Class B EMC filter has sufficient margin to allow both Installation Class II or Class I PELV with grounded output. A range of mechanical fixing options makes the RACM60 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 4" footprint for backwards-compatibility with legacy designs is available on request.

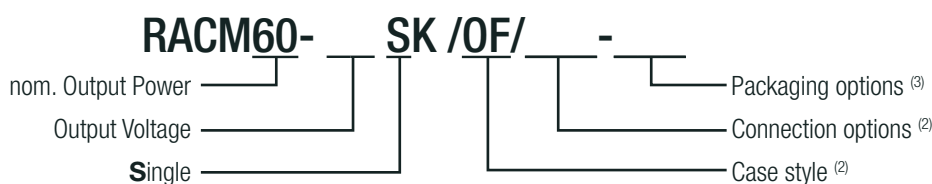
### Selection Guide

| Part Number                     | Input Voltage Range [VAC] | Output Voltage [VDC] | Output Current [mA] | Output Power [W] | Efficiency typ. <sup>(1)</sup> [%] |
|---------------------------------|---------------------------|----------------------|---------------------|------------------|------------------------------------|
| RACM60-05SK/OF <sup>(2,3)</sup> | 80-264                    | 5                    | 8000                | 40               | 89                                 |
| RACM60-12SK/OF <sup>(2,3)</sup> | 80-264                    | 12                   | 5000                | 60               | 90                                 |
| RACM60-15SK/OF <sup>(2,3)</sup> | 80-264                    | 15                   | 4000                | 60               | 90                                 |
| RACM60-24SK/OF <sup>(2,3)</sup> | 80-264                    | 24                   | 2500                | 60               | 90                                 |
| RACM60-36SK/OF <sup>(2,3)</sup> | 80-264                    | 36                   | 1667                | 60               | 90                                 |
| RACM60-48SK/OF <sup>(2,3)</sup> | 80-264                    | 48                   | 1250                | 60               | 90                                 |

#### Notes:

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

### Model Numbering



#### Notes:

Note2: "/OF" = standard 2"x3" open frame version with standard header connectors  
"/OF/PCB-T" = 2"x3" open frame with PCB mounting pins in single tray packaging (05, 12, 24Vout versions available)  
"/OF/2x4" = 2"x4" open frame version with standard header connectors (12 and 24Vout versions available)  
For other case/connection/footprint options, please contact RECOM technical support

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= 1152pcs)  
for detail information, refer to "PACKAGING INFORMATION"

#### Ordering Examples:

|                      |        |         |            |                           |                             |
|----------------------|--------|---------|------------|---------------------------|-----------------------------|
| RACM60-05SK/OF       | 5Vout  | 2" x 3" | open frame | standard header connector | 1pcs/cardboard box          |
| RACM60-24SK/OF/PCB-T | 24Vout | 2" x 3" | open frame | PCB mounting pins         | 12pcs/tray packaging        |
| RACM60-12SK/OF/2x4   | 12Vout | 2" x 4" | open frame | standard header connector | 1pcs/cardboard box          |
| RACM60-12SK/OF-CTN   | 12Vout | 2" x 4" | open frame | standard header connector | 48pcs/carton (MOQ= 1152pcs) |

**RECOM**  
AC/DC Converter

## RACM60-K/OF

60 Watt  
Open Frame  
2"x3" & 2"x4"  
Single Output



2MOPP  
250VAC

IEC/EN62368-1 (pending)  
ANSI/AAMI ES60601-1 Ed. 3.1 certified  
CSA/CAN-C22.2 No. 60601-1:14 certified  
IEC/EN60335-1 (pending)  
IEC/EN61558-1 (pending)  
IEC/EN61558-2-16 (pending)  
EN60601-1-2 compliant  
EN55032 compliant  
EN55035 compliant  
CB Report (pending)

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

### BASIC CHARACTERISTICS

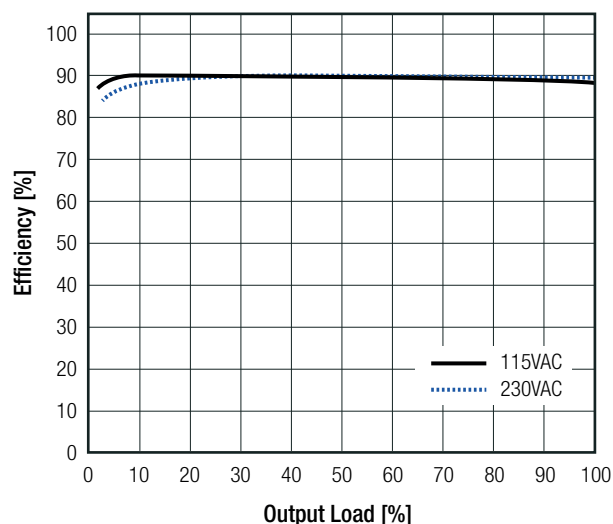
| Parameter                                               | Condition                |                           | Min.            | Typ.         | Max.                   |
|---------------------------------------------------------|--------------------------|---------------------------|-----------------|--------------|------------------------|
| Internal Input Filter                                   |                          |                           | Pi Type         |              |                        |
| Nom. Input Voltage                                      |                          |                           | 100VAC          |              | 240VAC                 |
| Input Voltage Range <sup>(3,4)</sup>                    |                          |                           | 80VAC<br>120VDC |              | 264VAC<br>370VDC       |
| Input Current                                           | 115VAC<br>230VAC         |                           |                 |              | 1400mA<br>600mA        |
| Inrush Current                                          | cold start               | 115VAC<br>230VAC          |                 |              | 30A<br>60A             |
| ErP Standby Mode Conformity<br>(Output Load Capability) | 115/230VAC               | Input Power: 0.5W<br>1.0W |                 | 0.3W<br>0.7W |                        |
| No load Power Consumption                               | 230VAC                   |                           |                 | 100mW        |                        |
| Input Frequency Range                                   | AC Input                 |                           | 47Hz            |              | 63Hz                   |
| Minimum Load                                            |                          |                           | 0%              |              |                        |
| Power Factor                                            | 115VAC<br>230VAC         |                           | 0.6<br>0.5      |              |                        |
| Start-up Time                                           |                          |                           |                 | 150ms        |                        |
| Rise Time                                               |                          |                           |                 | 100ms        |                        |
| Hold-up Time                                            | 115VAC<br>230VAC         |                           | 12ms<br>50ms    |              |                        |
| Internal Operating Frequency                            | 100% load at nominal Vin |                           |                 | 100kHz       |                        |
| Output Ripple and Noise <sup>(5)</sup>                  | 20MHz BW                 | 5Vout<br>others           |                 |              | 200mVp-p<br>1% of Vout |

#### Notes:

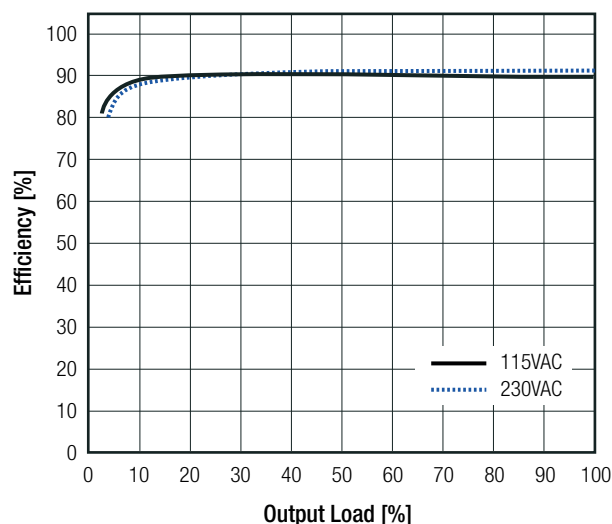
- Note3: The products were submitted for safety files at AC-Input operation (90-264VAC)  
 Note4: Output power derating for Line-input of less than 90VAC (derate linearly from 100% at 90VAC to 80% at 80VAC)  
 Note5: Measurements are made with a 0.1µF MLCC & 10µF E-cap in parallel across output. (low ESR)

### Efficiency vs. Load

RACM60-05SK/OF



others



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

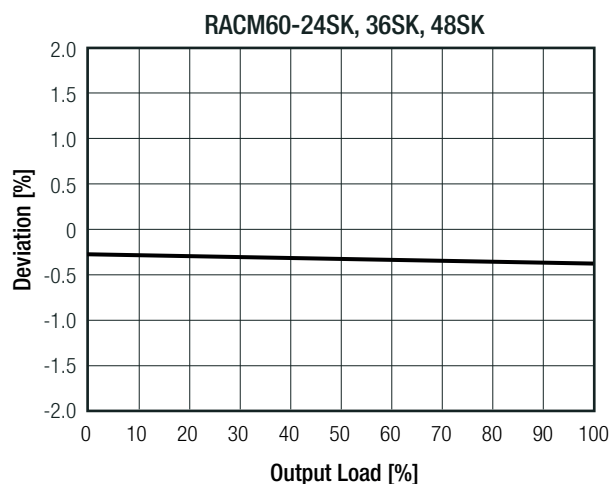
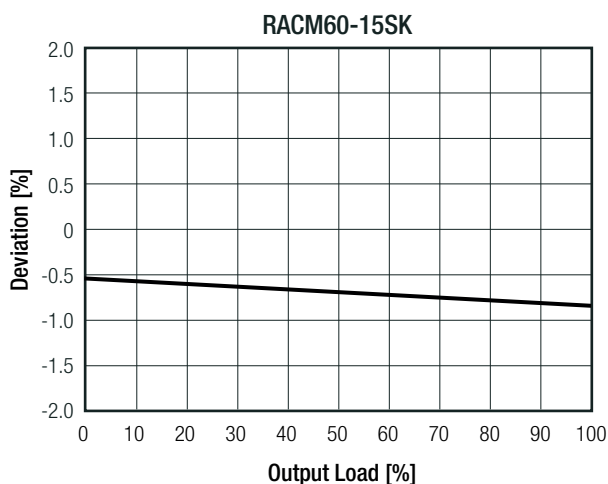
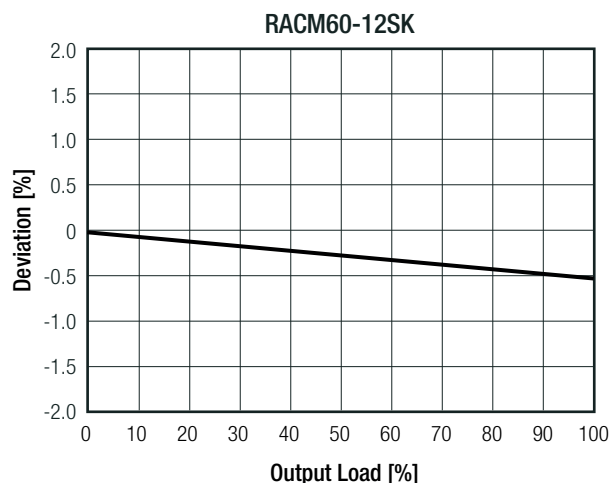
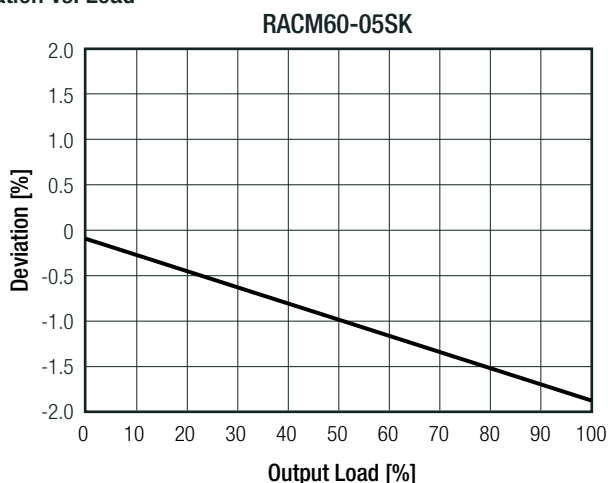
### REGULATIONS

| Parameter                      | Condition             | Value          |
|--------------------------------|-----------------------|----------------|
| Output Accuracy                | 100% load             | ±2.0% typ.     |
| Line Regulation                | low line to high line | ±0.05% typ.    |
| Load Regulation <sup>(6)</sup> | 10% to 100% load      | 5Vout          |
|                                |                       | 12, 15Vout     |
|                                |                       | 24, 36, 48Vout |
| Transient Response             | 25% load step change  | 3.0% max.      |
|                                | recovery time         | 500µs max.     |

#### Notes:

Note6: Operation below 10% load will not harm the converter, but specifications may not be met

#### Deviation vs. Load



### PROTECTIONS

| Parameter                      | Type     | Value                      |
|--------------------------------|----------|----------------------------|
| Input Fuse                     | internal | T3.15A, slow blow type     |
| Short Circuit Protection (SCP) |          | hiccup, auto recovery      |
| Over Voltage Protection (OVP)  |          | 105% - 120%, auto recovery |
| Over Voltage Category (OVC)    |          | OVCII                      |
| Over Current Protection (OCP)  |          | 130% - 180%, hiccup mode   |

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

| Parameter                                           | Type                                  |          | Value                           |
|-----------------------------------------------------|---------------------------------------|----------|---------------------------------|
| Thermal Shutdown                                    | TC point IC 101                       |          | +130°C, restart after cool down |
| Class of Equipment                                  |                                       |          | Class II                        |
| Isolation Voltage (safety certified) <sup>(7)</sup> | I/P to O/P                            | 1 minute | 4kVAC                           |
| Isolation Resistance                                | I/P to O/P, V <sub>ISO</sub> = 500VDC |          | 1GΩ min.                        |
| Isolation Capacitance                               | I/P to O/P, 100KHz/0.1V               |          | 100pF max.                      |
| Insulation Grade                                    |                                       |          | reinforced                      |
| Means of Protection                                 | 319VAC working voltage                |          | 2MOPP                           |

**Notes:**

Note7: 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 <b>"Derating Graph"</b> | -40°C to +85°C                                               |
| Temperature Coefficient           |                                      |                                  | ±0.02%/K                                                     |
| Operating Altitude <sup>(8)</sup> | according to IEC60601-1 / IEC62368-1 |                                  | 4000m / 5000m                                                |
| Operating Humidity                | non-condensing                       |                                  | 95% max.                                                     |
| Pollution Degree                  |                                      |                                  | PD2                                                          |
| Vibration                         | according to MIL-STD-202G            |                                  | 10-500Hz, 2G 10min./1cycle, period 60min. along x,y,z axes   |
| MTBF                              | according to MIL-HDBK-217F, G.B.     | +25°C<br>+40°C                   | >900 x 10 <sup>3</sup> hours<br>>726 x 10 <sup>3</sup> hours |
| Design Lifetime                   | nom. Vin= 230VAC, +40°C              |                                  | >42 x 10 <sup>3</sup> hours                                  |

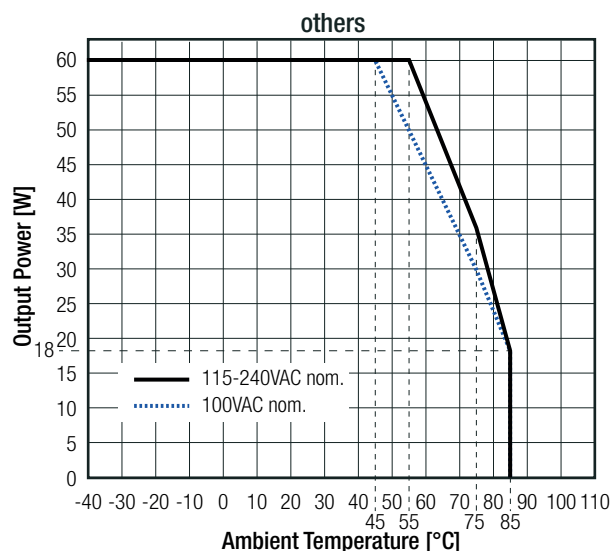
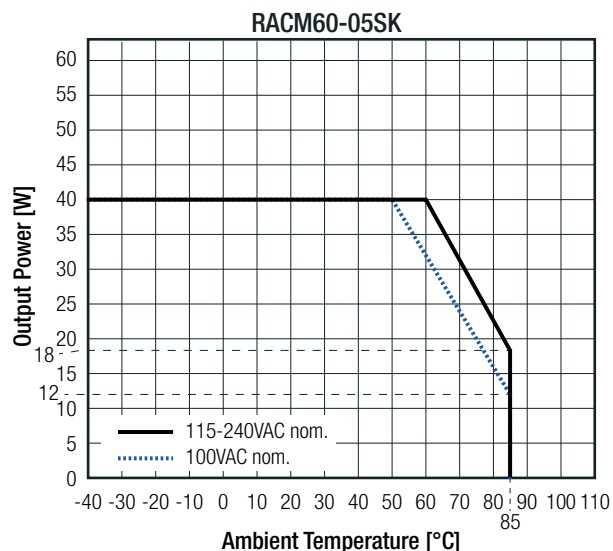
**Notes:**

Note8: Recognized by safety agency for safe operation up to 4000/5000m. High altitude operation may impact the performance and lifetime  
Please contact RECOM tech support for advice

### Derating Graph

(@ Chamber and natural convection 0.1m/s)

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



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

**SAFETY AND CERTIFICATIONS**

| Certificate Type (Safety)                                                                                                                              | Report Number                | Standard                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------|
| Medical electrical equipment Part 1: General requirements for basic safety and essential performance                                                   | E511305-D1000<br>-1/A0/C0-UL | CAN/CSA-C22.2 No. 60601-1:14, 3rd Ed.<br>ANSI/AAMI ES60601-1:2005 + A2:2010/R2012 |
| 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                                                                         |
| Household and similar electrical appliances – Safety – Part 1: General requirements (LVD)                                                              | pending                      | IEC60335-1:2010 5th Edition + AM1:2013<br>EN60335-1:2012 + A11:2014               |
| 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 & similar products for supply voltages up to 1100 V (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 | LCS200402131BE                                                                                                                                                                | EN60601-1-2:2015, Class B, Group 1   |
| ESD Electrostatic discharge immunity test                                                                                                                                              | Air: $\pm 2, 4, 8, 15$ kV<br>Contact: $\pm 2, 4, 8$ kV                                                                                                                        | EN61000-4-2:2009, Criteria B         |
| Radiated, radio-frequency, electromagnetic field immunity test                                                                                                                         | 9V/m (704-787MHz) 9V/m (5100-5800MHz)<br>10V/m (80-2700MHz)<br>27V/m (380-390MHz)<br>28V/m (430-470MHz)<br>28V/m (800-960MHz)<br>28V/m (1700-1990MHz)<br>28V/m (2400-2570MHz) | EN61000-4-3:2006+A2:2010, Criteria A |
| Fast Transient and Burst Immunity                                                                                                                                                      | AC Port: L-N 2kV                                                                                                                                                              | EN61000-4-4:2012, Criteria B         |
| Surge Immunity                                                                                                                                                                         | L-N: 1kV<br>L (N)-PE: 2kV                                                                                                                                                     | EN61000-4-5:2014, Criteria B         |
| Immunity to conducted disturbances, induced by radio-frequency fields                                                                                                                  | AC Port:<br>3Vrms: (0.15-80MHz)<br>6Vrms: (ISM and amateur radio bands according to table 9)                                                                                  | EN61000-4-6:2014, Criteria A         |
| Power Magnetic Field Immunity                                                                                                                                                          | 30A/m                                                                                                                                                                         | EN61000-4-8:2010, Criteria A         |
| Voltage Dips and Interruptions                                                                                                                                                         | Dips: 100% (0.5P 1.0P)<br>30%<br>Interruptions: 100%                                                                                                                          | EN61000-4-11:2004, Criteria B        |
| Limits of Voltage Fluctuations & Flicker                                                                                                                                               |                                                                                                                                                                               | EN61000-3-3:2013                     |

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

| EMC Compliance (Industrial according EN55032)                                                                                                        | Condition                                                                | Standard / Criterion                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------|
| Electromagnetic compatibility of multimedia equipment - Emission requirements                                                                        | LCS200402130BE                                                           | EN55032:2015, Class B                  |
| Electromagnetic compatibility of multimedia equipment - Immunity requirements                                                                        |                                                                          | EN55035:2017                           |
| ESD Electrostatic discharge immunity test                                                                                                            | Air: $\pm 2, 4, 8\text{kV}$<br>Contact: $\pm 2, 4\text{kV}$              | EN61000-4-2:2009, Criteria B           |
| Radiated, radio-frequency, electromagnetic field immunity test                                                                                       | 3 V/m (80-5000MHz)                                                       | EN61000-4-3:2006+A2:2010, Criteria A   |
| Fast Transient and Burst Immunity                                                                                                                    | AC Port: L-N 2kV                                                         | EN61000-4-4:2004+A1:2010, Criteria B   |
| Surge Immunity                                                                                                                                       | L-N: 1kV<br>L (N)-PE: 2kV                                                | EN61000-4-5:2014 + A1:2017, Criteria B |
| Immunity to conducted disturbances, induced by radio-frequency fields                                                                                | AC Port:<br>3Vrms (0.15-80MHz)<br>3-1Vrms (10-30MHz)<br>1Vrms (30-80MHz) | EN61000-4-6:2014+A1:2015, Criteria A   |
| Power Magnetic Field Immunity                                                                                                                        | 1A/m                                                                     | EN61000-4-8:2010, Criteria A           |
| Voltage Dips and Interruptions                                                                                                                       | Dips: 100%                                                               | EN61000-4-11:2004 +A1:2017, Criteria B |
|                                                                                                                                                      | 30%                                                                      | EN61000-4-11:2004 +A1:2017, Criteria C |
|                                                                                                                                                      | Interruptions: 100%                                                      | EN61000-4-11:2004 +A1:2017, Criteria C |
| Limits of Voltage Fluctuations & Flicker                                                                                                             |                                                                          | EN61000-3-3:2013                       |
| EMC Compliance (Industrial according EN61204-3)                                                                                                      | Condition                                                                | Standard / Criterion                   |
| Low voltage power supplies, d.c. output Part 3: Electromagnetic compatibility (EMC)                                                                  | LCS200402132BE                                                           | EN/IEC61204-3:2018, Class B            |
| ESD Electrostatic discharge immunity test                                                                                                            | Air: $\pm 2, 4, 8\text{kV}$<br>Contact: $\pm 2, 4\text{kV}$              | EN61000-4-2:2009, Criteria B           |
| Radiated, radio-frequency, electromagnetic field immunity test                                                                                       | 10V/m (80-1000MHz)<br>3V/m (1400-2000MHz)<br>1V/m (2000-2700MHz)         | EN61000-4-3:2006+A2:2010, Criteria A   |
| Fast Transient and Burst Immunity                                                                                                                    | AC Port: L-N 2kV                                                         | EN61000-4-4:2012, Criteria B           |
| Surge Immunity                                                                                                                                       | L-N: 1kV<br>L (N)-PE: 2kV                                                | EN61000-4-5:2014 + A1:2017, Criteria B |
| Immunity to conducted disturbances, induced by radio-frequency fields                                                                                | AC Port:<br>10Vrms (0.15-80MHz)                                          | EN61000-4-6:2014+A1:2015, Criteria A   |
| Power Magnetic Field Immunity                                                                                                                        | 1A/m                                                                     | EN61000-4-8:2010, Criteria A           |
| Voltage Dips and Interruptions                                                                                                                       | Dips: 100% (0.5P)                                                        | EN61000-4-11:2004 +A1:2017, Criteria B |
|                                                                                                                                                      | 100% (1.0P)                                                              | EN61000-4-11:2004 +A1:2017, Criteria B |
|                                                                                                                                                      | 30% or 20%                                                               | EN61000-4-11:2004 +A1:2017, Criteria C |
|                                                                                                                                                      | Interruptions: 100%                                                      | EN61000-4-11:2004 +A1:2017, 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           |
| Limitations on the amount of electromagnetic interference allowed from digital and electronic devices, industrial, scientific, and medical equipment |                                                                          | FCC 47 CFR Part 18                     |

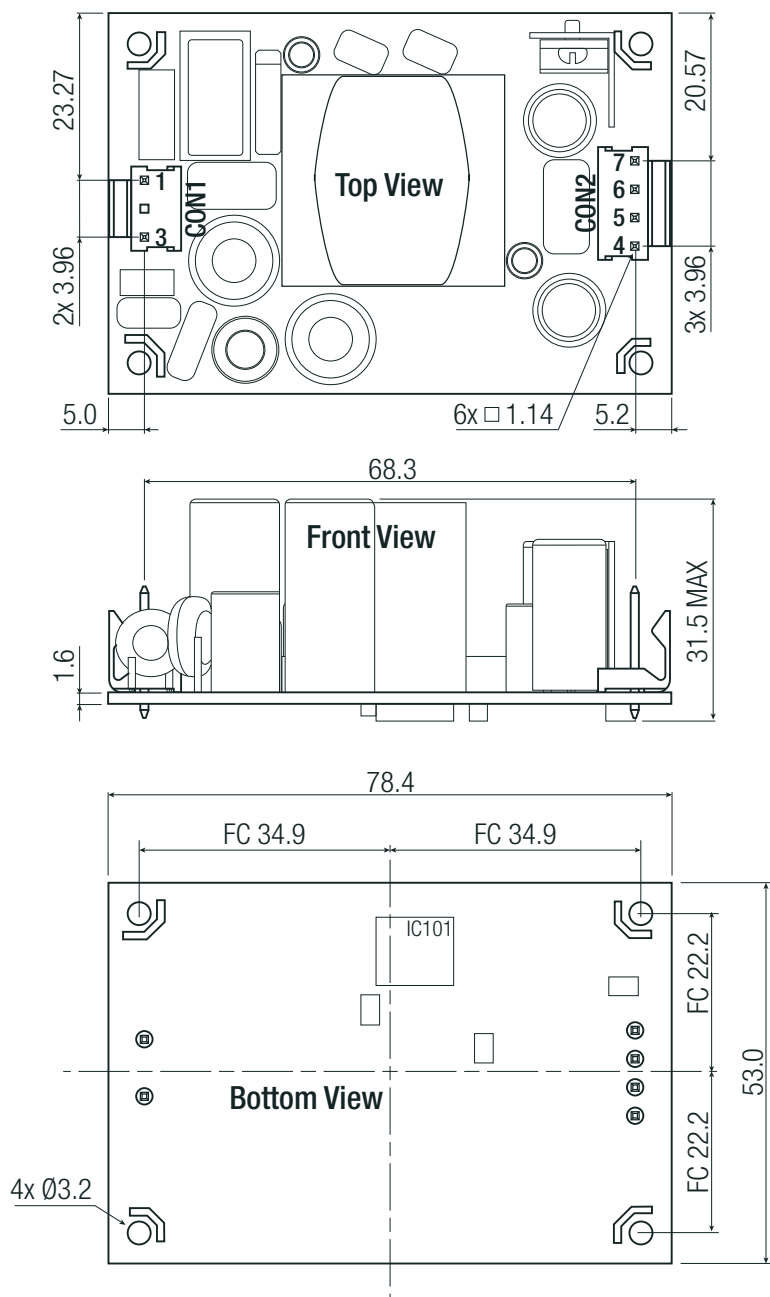
**DIMENSION AND PHYSICAL CHARACTERISTICS**

| Parameter         | Type                      | Value                 |
|-------------------|---------------------------|-----------------------|
| Material          | PCB                       | FR4 (UL94-V0)         |
| Dimension (LxWxH) | "/OF" type                | 78.4 x 53.0 x 31.5mm  |
|                   | "/OF/PCB" type            | 78.4 x 53.0 x 35.4mm  |
|                   | "/OF/2x4" type            | 101.6 x 53.0 x 31.5mm |
| Weight            | "/OF" and "/OF/PCB" types | 111g typ.             |
|                   | "/OF/2x4" type            | 120g typ.             |

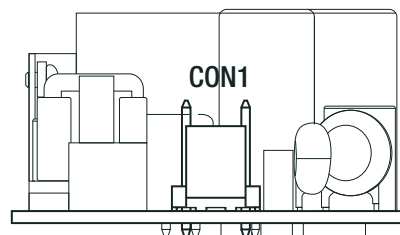
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**Specifications** (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

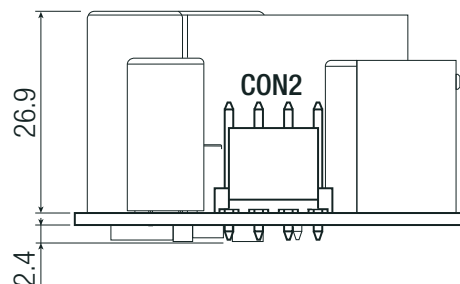
Dimension Drawing "/OF" (mm)



AC Input Side View



DC Output Side View



### Connector Information

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

FC= fixing centers

### Compatible Connector

#### Housing

Molex 51144 Series

#### Crimp Terminal

Molex 50539

### General tolerances according to ISO 2768-m (table for reference only)

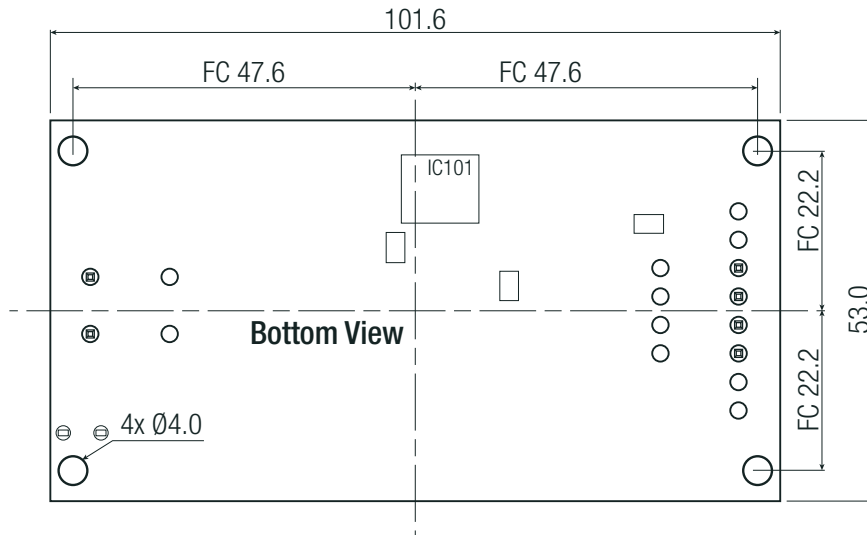
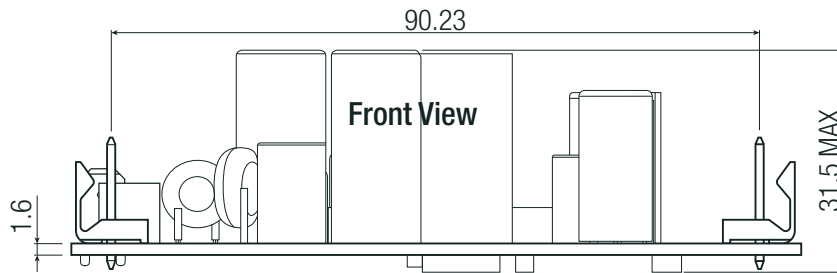
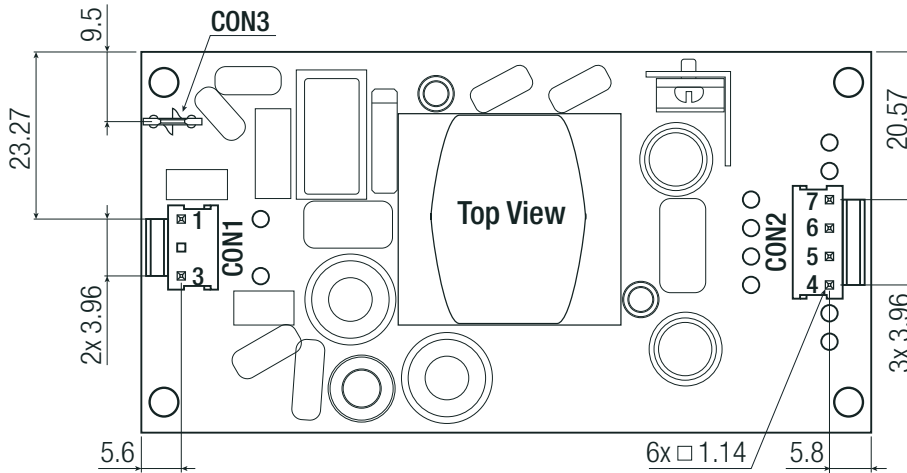
| Dimension range | Tolerances |
|-----------------|------------|
| 0.5 - 6 mm      | ±0.1 mm    |
| 6 - 30 mm       | ±0.2 mm    |
| 30 - 120 mm     | ±0.3 mm    |
| 120 - 400 mm    | ±0.5 mm    |

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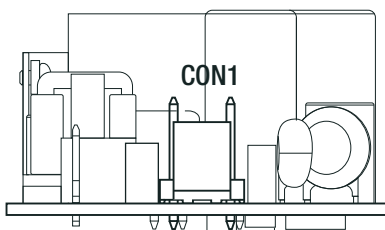


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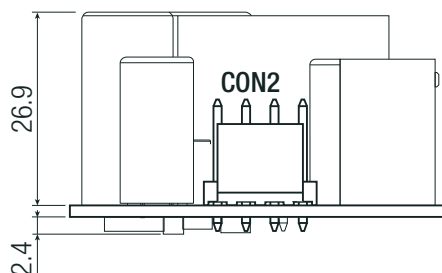
Dimension Drawing "/OF/2x4" (mm)



AC Input Side View



DC Output Side View



### Connector Information

| #                       | Function         | Terminal              |
|-------------------------|------------------|-----------------------|
| <b>AC Input (CON1)</b>  |                  |                       |
| 1                       | VAC in (N)       | 3 Pins (Pin2 removed) |
| 3                       | VAC in (L)       | with 3.96mm pitch     |
| <b>DC Output (CON2)</b> |                  |                       |
| 4,5                     | -VDC out         | 4 Pins                |
| 6,7                     | +VDC out         | with 3.96mm pitch     |
| <b>FE (CON3)</b>        |                  |                       |
| 8                       | functional earth | fast on               |

FC= fixing centers

Compatible connector please refer to "/OF" drawing)

### General tolerances according to ISO 2768-m (table for reference only)

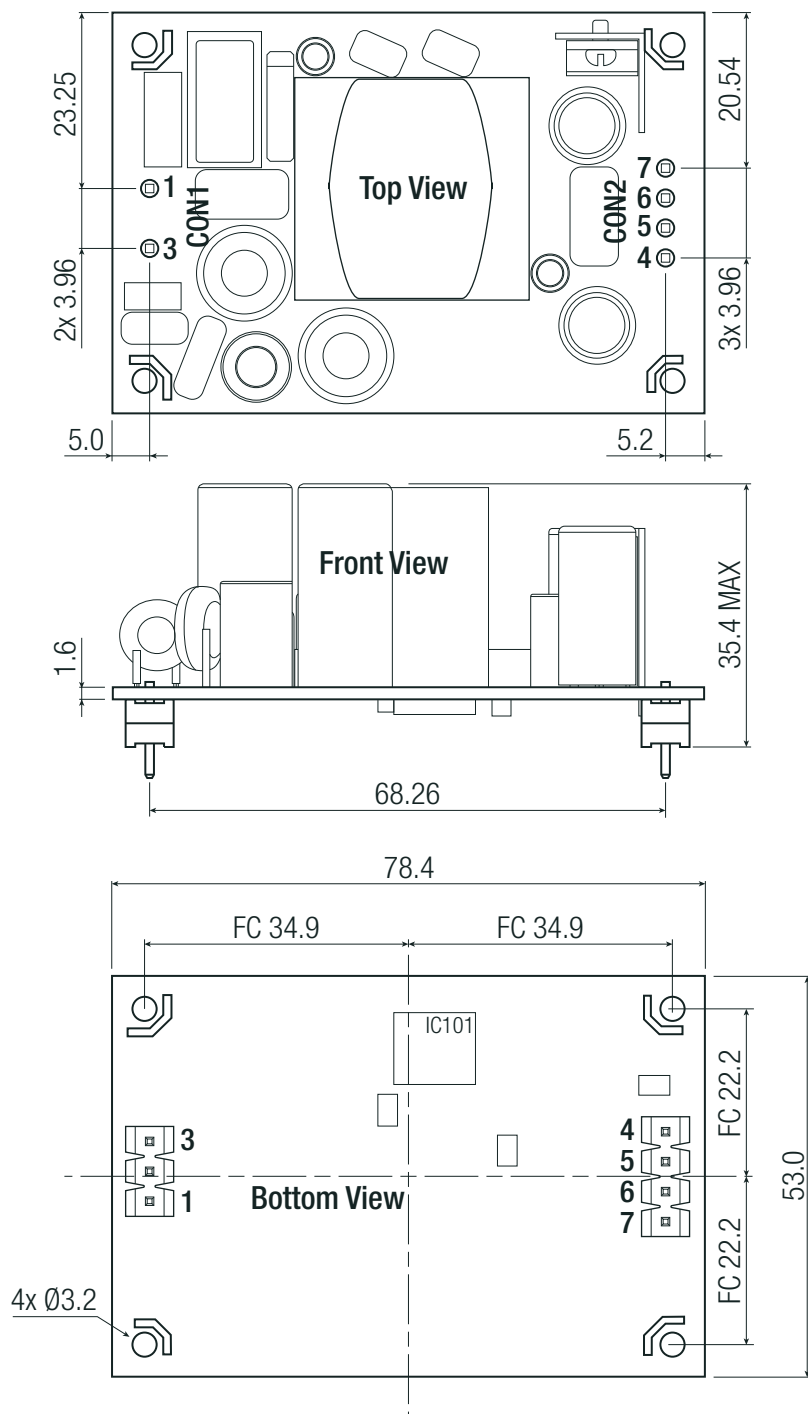
| Dimension range | Tolerances |
|-----------------|------------|
| 0.5 - 6 mm      | ±0.1 mm    |
| 6 - 30 mm       | ±0.2 mm    |
| 30 - 120 mm     | ±0.3 mm    |
| 120 - 400 mm    | ±0.5 mm    |

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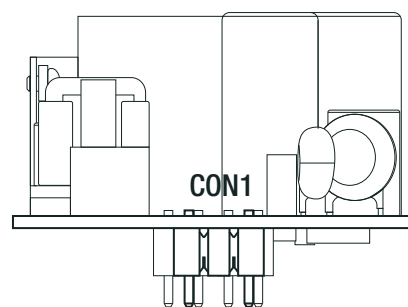


**Specifications** (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

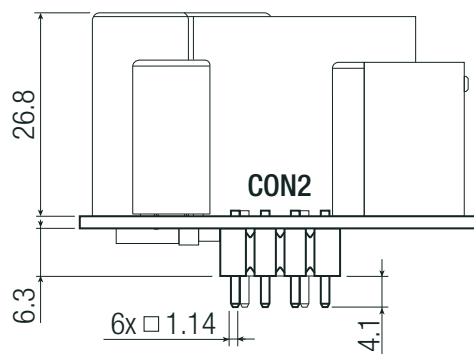
Dimension Drawing "/OF/PCB" (mm)



AC Input Side View



DC Output Side View



Pin-header Information

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

FC= fixing centers

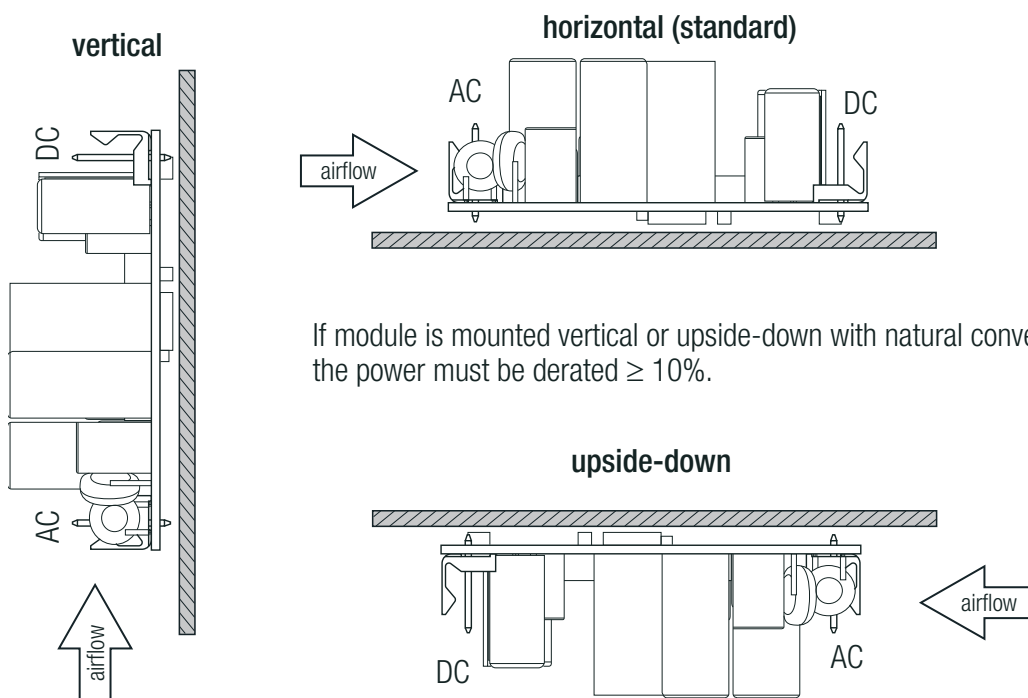
General tolerances according to ISO 2768-m  
(table for reference only)

| 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    |

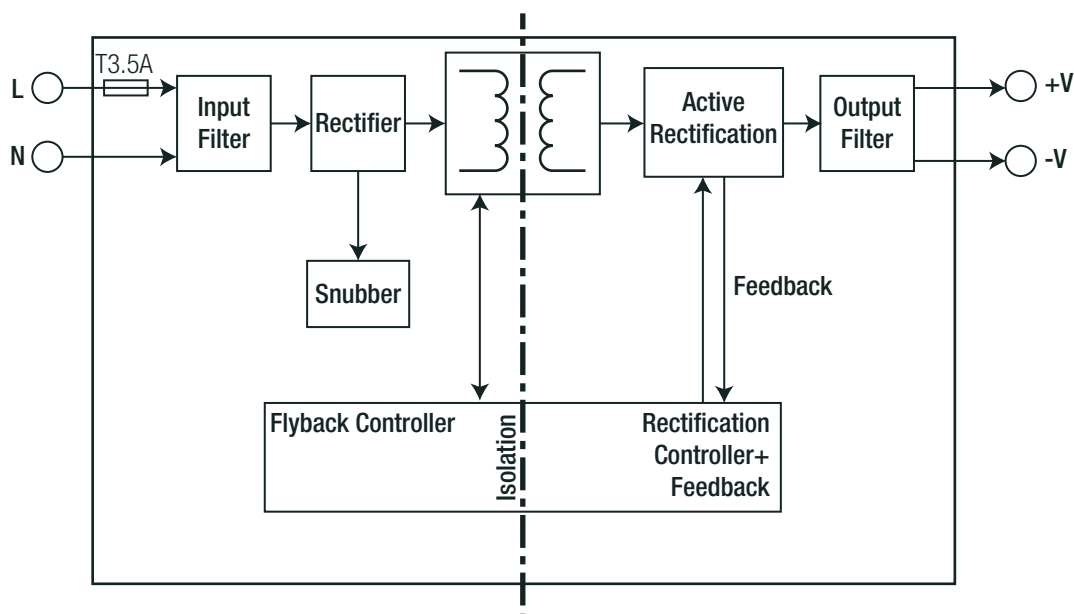
**Specifications** (measured @  $T_a = 25^\circ\text{C}$ , nom.  $V_{in}$ , full load and after warm-up unless otherwise stated)

### APPLICATION AND INSTALLATION

#### Mounting



#### Blockdiagram ("OF" and "OF/PCB")

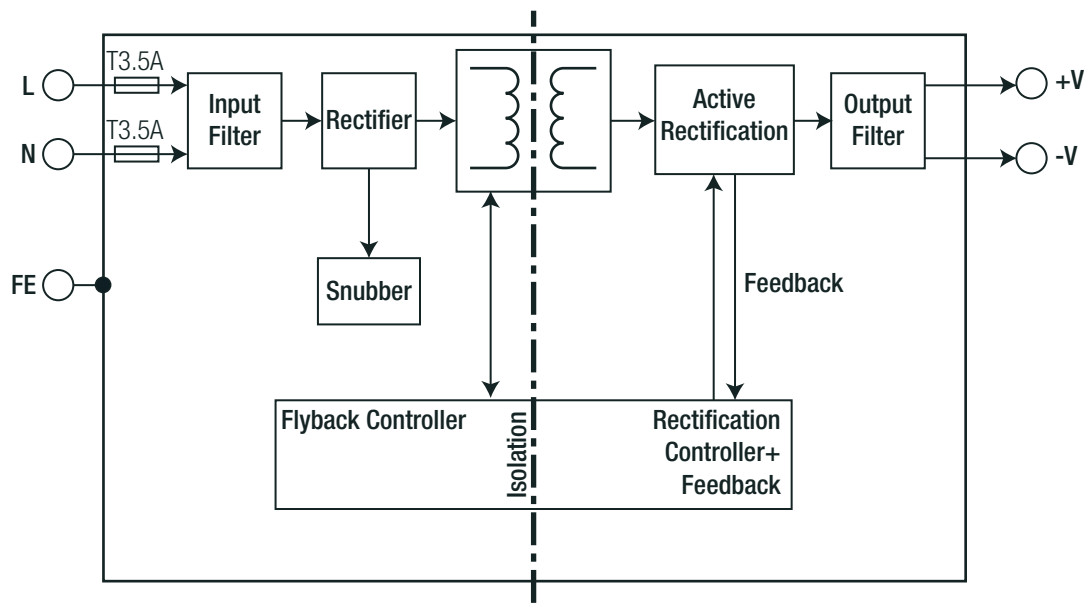


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**Specifications** (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

### APPLICATION AND INSTALLATION

Blockdiagram (“/OF/2x4”)



### PACKAGING INFORMATION

| Parameter                   | Type                          |                               | Value                   |
|-----------------------------|-------------------------------|-------------------------------|-------------------------|
| Packaging Dimension (LxWxH) | “/OF” type                    | cardboard box (single pack)   | 65.0 x 55.0 x 95.0mm    |
|                             | “/OF/2x4” type                |                               | 65.0 x 50.0 x 110.0mm   |
|                             | “/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 245.0mm |
| Package Unit                | “/OF” type and “/OF/2x4” type |                               | 1pcs                    |
|                             | “/OF/PCB-T” type              |                               | 12pcs                   |
|                             | “/OF-CTN” type, MOQ= 1152pcs  |                               | 48pcs                   |
| Storage Temperature Range   |                               |                               | -40°C to +90°C          |
| Storage Humidity            | non-condensing                |                               | 95% max.                |

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