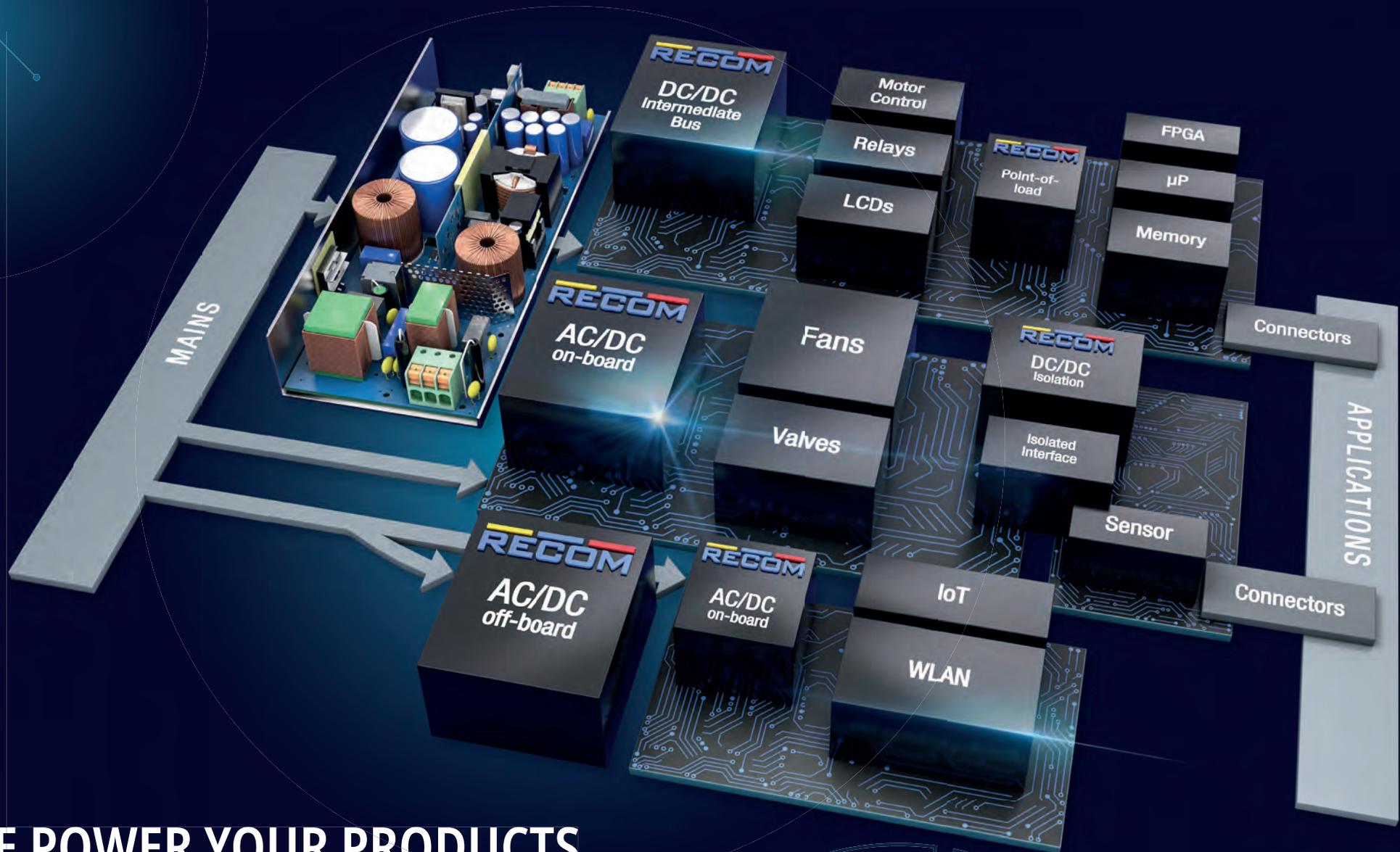


PRODUCT SELECTION GUIDE

AC/DC Converters ■ DC/DC Converters ■ Switching Regulators ■ LED Drivers



WE POWER YOUR PRODUCTS

POWER SUPPLIES FOR DISTRIBUTED POWER ARCHITECTURE

POWER SUPPLIES FOR DISTRIBUTED POWER ARCHITECTURE

Innovative. Efficient. Reliable.

The Distributed Power Architecture concept enables engineers to develop the power structure of their design flexibly and efficiently, using power converter modules. Therefore, RECOM has evolved AC/DC and DC/DC converters needed for current and future applications in **IoT, industry 4.0, smart homes and buildings, energy monitoring, medical, and transportation.**

RECOM manufactures a full range of standard and customized DC/DC and AC/DC converters in every power class from sub-1W to tens of kW, apart from switching regulators and LED drivers in a wide selection of formats. The company headquarters are located in Gmunden, Austria, and include the state-of-the-art logistics research and development center and laboratory wing and is supported by a global distribution network. The RECOM name has become synonymous with exceptional quality, integrity, innovation and excellent customer service.

RECOM: A global manufacturer

Our global network of RECOM – owned factories are located in Italy, Mainland China, and Taiwan with numerous subcontractors situated throughout Asia and Europe, enabling us to provide both low cost commercial products as well as custom power solutions quickly and efficiently. RECOM manufacturing and logistics sites are IATF 16949 / ISO 9001 certified, guaranteeing the highest level of quality control.

Innovative

Since our first DC/DC converter came off the production line, RECOM continues to launch innovative new products, often setting new standards within the industry. Over the past four decades, RECOM has become one of the fastest growing power supply manufacturers of standard and customized products in the industry. This is largely due to an exceptional, global team of forward-thinking engineers and technical sales personnel, along with our commitment to high-quality products and responsive customer service.



Efficient

When it comes to efficiency, our aim is to go beyond industry expectations, not only in the performance of our converters, but

also by assisting engineers with integrating RECOM products into their designs. We pride ourselves in providing over 35.000 standard products to choose from, thus providing solutions for almost any application. Custom designs are also possible, through our subsidiary company Power Control Systems, as well as directly with RECOM. RECOM is able to provide production samples quickly through our reliable distribution network and can provide guidance with application and EMC issues through our skilled and knowledgeable team of support engineers.



Reliable

Here at RECOM, we understand that reliability is the most critical factor when customers choose third-party power supply products for their applications. All RECOM products are thoroughly tested during development for performance, including rigorous EMC and Highly Accelerated Lifetime Testing (HALT), to identify any design weaknesses before they are released to the market. Due to our thorough development and testing process, whether for eventual mass production or a short-run order custom, we are able to offer a design of up to ten years and provide warranties of up to five years. RECOM continues to meet the highest international standards, backed with certification from international safety agencies.



Certified products:

RECOM offers product safety certifications including CE, EN, UL, CSA, ENEC, and PSE marks to meet our customers' requirements of international safety standards.



Product Selection Guide

This Selection Guide only represents a variety of our most popular products. Please visit www.recom-power.com or contact your local sales rep in case you do not find what you are looking for.

AC/DC CONVERTERS

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AC/DC POWER SUPPLIES

RECOM offers a wide range of AC/DC power supplies with performance and certifications suitable for applications ranging from **household to smart metering, industrial, medical, test and measurement, mobility/transportation, household/building automation, etc. Custom designs are additionally available for any application, including defense**, from RECOM subsidiary company PCS.

RECOM AC/DC power supplies utilize the latest design techniques to meet today's demands for safe, efficient, reliable, and cost-effective products with minimized light-load, no-load, and standby

losses – all this in the smallest case sizes and footprints with wide input ranges, most from 100VAC to 480VAC nominal. Accordingly, a special focus is on solutions for fan-less operation, supported by heat sinking base plates for easing thermal system integration of extra high-power density modules.

The standard ranges available span powers from 1W to 1200W with multi-kW parts available as platform solutions for custom designs. In addition, mechanical formats available include through-hole board-mount, encapsulated with wire connections, open frame with connectors or screw terminations, and even panel-

mounting in an IEC C14 'kettle' connector. Most products are rated for convection cooling up to high ambient temperatures while the higher power, open-frame parts, deliver maximum output with optional fan cooling. All products meet 'Class B' EMC emissions requirements without additional filtering and floating outputs. Many products feature isolation and leakage current performance suitable for the most sensitive medical applications.

The RECOM AC/DC 'Book of Knowledge' provides an insight into the design methodologies used in your choice of AC/DC converter. www.recom-power.com/bok



AC/DC CONVERTERS

PCB MOUNT

- 1 to 60 watts
- Regulated outputs
- OVP and OCP protected
- Low output ripple & noise
- High efficiency over the entire load range
- Optimized stand by mode operation
- Built-in EN55032 class B filter
- Ultra compact size
- Modified standards available

Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation	Dimensions (LxWxH) / Pinning	Certifications	Other features
 RAC02E-K/277	2	85-305	3.3, 5, 12, 15, 24	4 kVAC / 1 min	33.7 x 22.2 x 15.4 mm (1.3" x 0.9" x 0.6")	 UL/IEC/EN62368-1 IEC/EN61558-1, 2-16 EN60335-1	Low profile / tiny footprint operating temperature range: -40°C to +90°C with derating, full load power up to 80°C no load power consumption <75mW
 RAC03-K	3	85-264	3.3, 5, 12, 15, 18, 24	3 kVAC / 1 min	28.5 x 23.5 x 17.9 mm (1.1" x 0.9" x 0.7")	 UL/IEC/EN62368-1 IEC/EN60335-1	Operating temperature range: -40°C to +80°C household certified tiniest footprint at 3W
 RAC03-K/SMT	3	85-264	3.3, 5, 12, 15, 18, 24	3 kVAC / 1 min	27.7 x 23.7 x 19.0 mm (1.1" x 0.9" x 0.8")	 EN/IEC/UL62368-1 EN/IEC60335-1 EN/IEC61558-1, -2 EN62233	Operating temperature range: -40°C to +80°C operating altitude 5000m JEDEC SMT reflow solder-able construction
 RAC03E-K/277	3	85-305	3.3, 5, 12, 15, 24	4 kVAC / 1 min	37.0 x 24.0 x 15.4 mm (1.5" x 0.9" x 0.6")	 UL/IEC/EN62368-1 EN62233 IEC/EN61558-1, 2-16 EN60335-1	Operating temperature range: -40°C to +85°C over Voltage category: OVC III household certified, low profile no load power consumption <75mW
 RAC04-K/277	4	80-305	3.3, 5, 12, 15, 24	4 kVAC / 1 min	36.7 x 27.2 x 17.4 mm (1.4" x 1.0" x 0.7")	 EN/IEC/UL60950-1 EN/IEC/UL62368-1 IEC/EN61558-1, 2-16 EN61010-1 EN60335-1	Operating temperature range: -40°C to +90°C household certified 6W peak power extra robust series
 RAC04-G (B or A)	4	85-305	3.3, 5, 9, 12, 15, 24	3 kVAC / 1 min	37.0 x 24.0 x 15.0 mm (1.5" x 0.9" x 0.6")	 EN/IEC/UL62368-1 EN60335-1 EN/IEC61558-1, 2-16	No load power consumption <75mW, operating temperature range: -40°C to +85°C, low profile and typ. 3W footprint, RAC04-GA: household certi- fied, low leakage current
 RAC05E-K	5	90-264	5, 12, 15, 24	4.2 kVAC / 1 min	37.0 x 24.0 x 18.0 mm (1.5" x 0.9" x 0.7")	 EN/IEC/UL62368-1 EN/IEC60335-1 EN/IEC61558-1, 2-16	Economical design no load power consumption <100mW industry standard pinout for typ. 3W
 RAC05E-KT	5	90-264	4, 5, 12, 15, 24	3 kVAC / 1 min	32.1 x 27.1 x 21.8 mm (1.3" x 1.1" x 0.9")	 UL/IEC/EN62368-1 IEC/EN60335-1 EN/IEC61558-1, 2-16	Operating temperature range: -25°C to +75°C economical design no load power consumption <100mW EI30 standard Transformer pinout

AC/DC CONVERTERS

PCB MOUNT

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Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation	Dimensions (LxWxH) / Pinning	Certifications	Other features
 RAC05-K/277	5	85-305	3.3, 5, 12, 15, 24	4.2 kVAC / 1 min	31.7 x 26.7 x 21.8 mm (1.2" x 1.0" x 0.9")	 EN/UL62368-1 IEC/EN60335-1 EN/IEC61558-1, 2-16	OVCIII: up to 2000m altitude OVCI: 5000m operating temperature range: -40°C to +90°C 6W peak power
 RAC05-K/480	5	85-528	5, 12, 15	5.4 kVAC / 1 min	52.5 x 27.4 x 23.0 mm (2.1" x 1.1" x 0.9")	 IEC/EN62368-1 UL/IEC61010-1	Ultra-wide input range 85-528VAC OVC III up to 3000m altitude operating temperature range: -40°C to 80°C
 RACM06E-K/277	6	80-305	3.3, 5, 12, 15, 24	4 kVAC / 1 min	25.6 x 25.6 x 16.6 mm (1.0" x 1.0" x 0.6")	 EN/IEC62368-1 ANSI/AAMI ES60601-1 EN/IEC60601-1 EN/IEC60335-1 EN/IEC61558-1 EN62233	2MOPP rated to 5000m; prepared for BF use OVC III up to 5000m operating temperature range: -40°C to +90°C
 RAC10-K/277	10	85-305	3.3, 5, 12, 15, 18, 24 ±12, ±15	4 kVAC / 1 min	52.5 x 27.4 x 23.0 mm (2.1" x 1.1" x 0.9")	 EN/IEC/UL60950-1 EN/IEC/UL62368-1 EN/IEC60335-1 EN62477-1	OVC III rated OVCIII up to 3000m altitude; operating temperature range: -40°C to +80°C 14 Watt peak power
 RAC10E-K/277	10	85-305	3.3, 5, 12, 15, 24	4 kVAC / 1 min	45.7 x 25.4 x 21.5 mm (1.8" x 1.0" x 0.8")	 UL/IEC62368-1 EN/IEC61558-1, 2-16	Economical design compact shape over voltage category: OVC III EMI class B with grounded output (eg. PELV)
 RAC15-K/480	15	85-528	5, 12, 15, 24	3.6 kVAC / 1 min	52.5 x 40.0 x 25.5 mm (2.1" x 1.6" x 0.9")	 UL/IEC/EN62368-1 EN/IEC61010 EN60335-1	Phase to phase connections OVC III up to 5000m, PD3 and LPS operating temperature range: -40 to +90°C
 RACM16E-K/277	16	85-305	3.3, 5, 12, 15, 24, 30	4 kVAC / 1 min	52.7 x 27.6 x 23.0 mm (2.1" x 1.1" x 0.9")	 ANSI/AAMI ES60601-1 EN/IEC60335-1 EN/IEC62368-1 EN/IEC60601-1 EN/IEC61558-2-16	Operating temperature range: -40°C to +85°C 2MOPP rated to 5000m; prepared for BF use CV/CC over load limiting characteristics OVCIII: up to 4000m altitude; OVCI: 5000m
 RAC20-K(/277)	20	85-264 (/277) 85-305	5, 12, 15, 24, 48 ±12, ±15	3 kVAC / 1 min	52.5 x 27.4 x 23.0 mm (2.1" x 1.1" x 0.9")	 EN/IEC/UL62368-1 IEC/EN60335-1 IEC/EN61558-1, 2-16	Standby mode optimized PSU (ENER Lot 6) ultra-high efficiency over entire load range

AC/DC CONVERTERS

PCB MOUNT

- 1 to 60 watts
- Regulated outputs
- OVP and OCP protected
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- Optimized stand by mode operation
- Built-in EN55032 class B filter
- Ultra compact size
- Modified standards available

Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation	Dimensions (LxWxH) / Pinning	Certifications	Other features
 RAC20E-K/277	20	85-305	5, 12, 24	4 kVAC / 1 min	52.7 x 27.6 x 23.0 mm (2.1" x 1.1" x 0.9")	 UL/IEC/EN62368-1 EN/IEC61558-1, 2-16	Economical design, EN55032 class "B": with grounded output (eg. PELV); OVCIII: up to 2000m altitude, OVCII: 5000m; operating temperature: -40 to 90°C
 RAC25-K/480	25	85-528	5, 12, 15, 24	3.6 kVAC / 1 min	83.2 x 46.4 x 30.4 mm (3.3" x 1.8" x 1.2")	 UL/IEC/EN62368-1 EN/IEC61010 EN603350-1	Phase to phase connections OVC III up to 5000m, PD3 and LPS operating temperature range: -40°C to +90°C
 RACM30-K/277	30	85-305	5, 12, 15, 24, ±12, ±15	4 kVAC / 1 min	52.5 x 40.0 x 25.5 mm (2,1" x 1.6" x 0.9")	 ANSI/AAMI ES60601-1 UL/EN/IEC62368-1 EN60335-1 EN62233 IEC/EN60601-1 IEC/EN61558-2	2MOPP rated to 5000m; prepared for BF use OVC III up to 5000m, PD3 and LPS, operating temperature range: -40°C to +90°C, EN55032 class „B“: with grounded output (eg. PELV)
 RACM40-K	40	80-264	5, 12, 15, 18, 24, 36, 48	4 kVAC / 1 min	83.2 x 46.4 x 30.4 mm (3.2" x 1.8" x 1.2")	 ANSI/AAMI ES60601-1 EN/IEC60335-1 EN/IEC62368-1 EN/IEC60601-1 EN/IEC61558-1, 2-16	2MOPP rated to 5000m; prepared for BF use operating temperature range: -40°C to +85°C 5000m altitude OVC II; 2000m OVC III, EN55032 class "B": with grounded output (eg. PELV)
 RACM40-K/OF(PCB)	40	80-264	5, 12, 15, 18, 24, 36, 48	4 kVAC / 1 min	78.3 x 40.6 x 25.5 mm (OF) (3.0" x 1.6" x 1.0") 78.3 x 40.6 x 29.1 mm (PCB) (3.0" x 1.6" x 1.1")	ANSI/AAMI ES60601-1 EN/IEC60335-1 EN/IEC62368-1 EN/IEC60601-1 EN/IEC61558-1, 2-16	Operating temperature range: -40°C to +85°C over voltage category: OVC III rated, optional 2"x3" package (OF/2"x3"), 5000m altitude OVC II; 2000m OVC III, 2MOPP rating; prepared for BF use
 RACM60-K/OF(PCB)	60	80-264	5, 12, 15, 24, 36, 48	4.8 kVAC / 1 min	78.4 x 53.0 x 35.4 mm (3.0" x 2.0" x 1.4")	ANSI/AAMI ES60601-1 EN/IEC60335-1 EN/IEC62368-1 EN/IEC60601-1 EN/IEC61558-1, 2-16	2MOPP rated to 4000m; prepared for BF use operating temperature range: -40°C to +85°C 5000m altitude OVC II; 2000m OVC III

AC/DC CONVERTERS

CHASSIS MOUNT

- 3 to 1200 watts
- Short circuit protection
- Built-in active PFC
- Built-in class B filter
- Different package types:
enclosed and open-frame (/OF) versions

Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RAC03-SER/277	3	85-305	3.3, 5, 12, 24	3 kVAC / 1 min	50.3 x 50.3 x 11.0 mm (2.0" x 2.0" x 0.4")	EN/IEC/UL60950-1 EN60335-1	Extra low footprint <11mm low no load power consumption <40mW operating temperature range: -40°C to +85°C round design and flying wires for flushmounting
 RAC05-K/277/W	5	85-305	3.3, 5, 12, 15, 24	4.2 kVAC / 1 min	31.7 x 26.7 x 21.8 mm (1.2" x 1.0" x 0.9")	EN/UL62368-1 IEC/EN60335-1 IEC/EN61558-1 IEC/EN61558-2-16	Over voltage category: OVC III operating temperature range: -40°C to +90°C 6W peak power
 RAC05-K/C14	5	85-264	3.3, 5, 12, 15, 24	3 kVAC / 1 min	67.0 x 48.0 x 23.0 mm (2.6" x 1.9" x 0.9")	UL/IEC/EN62368-1 IEC/EN60950-1	Isolated power supply with integrated mains filter, safe, touchable DC outputs easy installation worldwide standard IEC input
 RACM15E-K/OF	15	80-264	3.3, 5, 12, 15, 24, 30	4 kVAC / 1 min	80.0 x 23.8 x 22.0 mm (3.2" x 0.9" x 0.8")	ANSI/AAMI ES60601-1 EN/IEC60335-1 EN/IEC62368-1 EN/IEC60601-1 EN/IEC61558-2-16	Operating temperature range: -40°C to +85°C OVC III up to 3000m altitude 2MOPP rated to 5000m; prepared for BF use CV/CC over load limiting characteristics
 RACM15E-K/PMAD	15	80-264	3.3, 5, 12, 15, 24, 30	4 kVAC / 1 min	83.0 x 26.4 x 29.5 mm (3.2" x 1.0" x 1.2")	ANSI/AAMI ES60601-1 EN/IEC60335-1 EN/IEC62368-1 EN/IEC60601-1 EN/IEC61558-2-16	Operating temperature range: -40°C to +85°C OVC III up to 3000m altitude, OVCII: 5000m 2MOPP rated to 5000m; prepared for BF use CV/CC over load limiting characteristics
 RACM16E-K/277/W	16	85-305	3.3, 5, 12, 15, 24, 30	4 kVAC / 1 min	52.7 x 27.6 x 23.0 mm (2.1" x 1.1" x 0.9")	ANSI/AAMI ES60601-1 EN/IEC60335-1 EN/IEC62368-1 EN/IEC60601-1 EN/IEC61558-2-16	Operating temperature range: -40°C to +85°C 2MOPP rated to 5000m; prepared for BF use OVC III up to 3000m altitude CV/CC over load limiting characteristics
 RAC20-K/W	20	85-264 (/277) 85-305	5, 12, 15, 24, 48	3 kVAC / 1 min	52.5 x 27.4 x 23.0 mm (2.1" x 1.1" x 0.9")	EN/IEC/UL62368-1 IEC/EN60335-1 IEC/EN61558-1 IEC/EN61558-2-16	Standby mode optimized PSU (ENER Lot 6) ultra-high efficiency over entire load range /277/W version on request
 RACM30-K/277(W) (/OF) (/PMA)	30	85-305	5,12, 15, 24, ±12, ±15	4 kVAC / 1 min	52.5 x 40.0 x 25.5 mm (W) (2.1" x 1.6" x 0.9") 84.7 x 40.0 x 33.0 mm (PMA) (3.3" x 1.6" x 1.3")	UL/EN/IEC62368-1 EN60335-1 EN62233 IEC/EN60601-1 IEC/EN61558-2	OVC III up to 5000m, PD3 and LPS operating temperature range: -40°C up to +90°C /PMA: panel mount version with push-in terminals 2MOPP rated to 5000m; prepared for BF use

AC/DC CONVERTERS

CHASSIS MOUNT

- 3 to 1200 watts
- Short circuit protection
- Built-in active PFC
- Built-in class B filter
- Different package types:
enclosed and open-frame (/OF) versions

Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RACM40-K/OF	40	80-264	5, 12, 15, 18, 24, 36, 48	4 kVAC / 1 min	78.3 x 40.6 x 25.5 mm (OF) (3.0" x 1.6" x 1.0") 78.3 x 53.0 x 25.5 mm (2x3") (3.0" x 2.0" x 1.0")	ANSI/AAMI ES60601-1 EN/IEC60335-1 EN/IEC62368-1 EN/IEC60601-1 EN/IEC61558-1, 2-16	OVCIII: up to 2000m altitude; OVCII: 5000m operating temperature range: -40°C to +85°C 2MOPP rated to 5000m; prepared for BF use
 RACM60-K/OF (/ENC/2x4) (/277/OF)	60	80-264 80-305 (/277/OF)	5, 12, 15, 24, 36, 48	4.8 kVAC / 1 min	78.4 x 53.0 x 31.5 mm (OF) (3.0" x 2.0" x 1.2") 101.6 x 53.0 x 31.5 mm (2x4") (4.0" x 2.0" x 1.2")	ANSI/AAMI ES60601-1 EN/IEC60335-1 EN/IEC62368-1 EN/IEC60601-1 EN/IEC61558-1, 2-16	Operating temperature range: -40°C to +85°C OVCIII: up to 2000m altitude; OVCII: 5000m 2MOPP rated to 4000m; prepared for BF use
 RACM90-K/OF (/ENC)	90	85-264	12, 15, 24, 36, 48	4 kVAC / 1 min	101.6 x 50.8 x 32.0 mm (OF) (4.0" x 2.0" x 1.3") 118.3 x 62.7 x 38.7 mm (ENC) (4.6" x 2.4" x 1.5")	ANSI/AAMI ES60601-1 EN/IEC60335-1 EN/IEC62368-1 EN/IEC60601-1 EN/IEC61558-1, 2-16	B and BF ready, operating temperature ratings: -40 to 90°C, low leakage current <75µA, LPS limited power source rated, 2MOPP rated to 4000m; prepared for BF use OVCIII: up to 2000m altitude; OVCII: 4000m
 RACM130E-K/OF (/ENC)	130	85-264	12, 15, 24, 36, 48	4 kVAC / 1 min	101.6 x 50.8 x 32.0 mm (OF) (4.0" x 2.0" x 1.3") 118.3 x 62.7 x 38.7 mm (ENC) (4.6" x 2.4" x 1.5")	ANSI/AAMI ES60601-1 EN/IEC60335-1 EN/IEC62368-1 EN/IEC60601-1 EN/IEC61558-1, 2-16	2MOPP rated to 4000m; prepared for BF use low leakage current <75µA operating temperature ratings: -40 to 90°C OVCIII: up to 2000m altitude; OVCII: 4000m
 RACM140E-K/OF (/ENC)	140	80-264	12, 16, 24, 36, 48	4 kVAC / 1 min	127.0 x 81.5 x 38.0 mm (5.0" x 3.2" x 1.5")	EN/IEC60601-1 ANSI/AAMI ES60601-1 EN/IEC62368-1	Operating temperature range: -40°C to + 90°C 2MOPP rated to 4000m; prepared for BF use 210W boost power, OVCIII: up to 2000m altitude; OVCII: 5000m
 RAC150-G/OF (/ENC)	150	90-264	12, 24, 48	3 kVAC / 1 min	101.6 x 50.8 x 30.0 mm (OF) (4.0" x 2.0" x 1.2") 105.0 x 62.0 x 35.0 mm (ENC) (4.1" x 2.4" x 1.4")	EN/IEC/UL62368-1	Efficiency up to 91% SCP and OVP protection output 125W at +50°C with natural convection
 RACM230-G/OF (/ENC)	160 / 230	80-264	12, 24, 36, 48, 54	4 kVAC / 1 min	101.6 x 50.8 x 32.0 mm (OF) (4.0" x 2.0" x 1.3") 105.0 x 62.0 x 35.0 mm (ENC) (4.1" x 2.4" x 1.4")	ANSI/AAMI ES60601-1 EN/IEC62368-1 EN60335-1 EN/IEC60601-1 EN/IEC61558-1, 2-16	160W conduction-cooled, fan-less operation wide operating temperature range: -40°C to +80°C 2MOPP rated to 5000m; prepared for BF use
 RACM550-G/OF (/ENC)	300 / 550	80-264	24, 36, 48, 56	4 kVAC / 1 min	127.0 x 76.0 x 38.0 mm (OF) (5.0" x 3.0" x 1.5") 150.0 x 87.0 x 45.0 mm (ENC) (5.9" x 3.4" x 1.8")	ANSI/AAMI ES60601-1 IEC/EN62368-1 IEC/EN60335-1 IEC/EN60601-1 IEC/EN61558-1, 2-16	300W conduction-cooled, fan-less operation 550W peak power or forced air rating 2MOPP rated to 5000m; prepared for BF use 5VSB Auxiliary and 12V fan outputs

AC/DC CONVERTERS

CHASSIS MOUNT

- 3 to 1200 watts
- Short circuit protection
- Built-in active PFC
- Built-in class B filter
- Different package types:
enclosed and open-frame (/OF) versions

Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
  RACM600-L/OF	600	80-275	12*, 24, 48*	4 kVAC / 1 min	196.8 x 101.6 x 40.6 mm (7.7" x 4.0" x 1.6")	UL/IEC/EN62368-1 ANSI/AAMI ES60601-1 IEC/EN60601-1	450W convection cooled, 600W peak power 5VSB auxiliary output active current sharing PMB monitoring, *800W peak power
  RACM1200-V	1200	80-264	24, 36, 48	4 kVAC / 1 min	228.0 x 96.2 x 40.0 mm (9.0" x 3.8" x 1.6")	ANSI/AAMI ES60601-1 IEC/EN/UL62368-1 IEC/EN60601-1 IEC/EN61558-1, 2-16	Operating temperature range: -40°C to +80°C optional PMBus version (/PMB) conduction cooled, fanless operation industrial certified, modified standards available

DC/DC CONVERTERS

RECOM has been offering isolated DC/DC converters and non-isolated switching regulators since 1975 and has the most extensive range on the market.

The standard range of isolated converters spans from 0.25W to 300W with higher power to several kW, available in RECOM's subsidiary company PCS as custom products based on proven platform designs. Almost every imaginable format of converter is offered, with a range of through-hole products, open or encapsulated surface-mount types in 'gullwing' or 'pinless' variants along with wired, screw terminal, and connectorized parts, mostly in industry-standard SIP, DIP, 'brick', and SMD formats. In addition to the standard portfolio, customized solutions are also available. Fixed and wide input isolated converters are available up to 16:1 with isolation ratings up to 20kVDC and certifications to

the highest 2MOPP medical grade. Unregulated and fully regulated parts are offered with variants featuring up to three outputs. For the **most cost sensitive applications** without sacrificing quality, the RECOM 'E' line provides the best value.

Non-isolated parts are available, ranging from 0.18W to 3kW and higher for custom designs from PCS. Input voltage ranges span 0.65V to 75V with some parts handling a 15:1 variation. Buck, boost, and buck-boost types have fixed or settable output voltages over a wide range from 0.8V to 30V. The package formats include SIP3/4/12, SMD, and 'brick'. Open frame and encapsulated types are available.

Many SMT parts feature RECOM's innovative **'3D Power Packaging®'** technology which utilizes advanced techniques to

leverage the 'third dimension' for maximum power density with minimum footprint. Typical construction methods are overmolded 'flip-chip on leadframe' for a QFN package, embedded die in substrates, and complex multi-layer PCBs with plugged and blind vias. 'Chip and wire bonding' with over-molding is another technique used with very high frequency planar magnetics for optimal thermal and functional performance. The result is a range of fully featured, high power density, low cost switching regulators, and isolated DC/DC converters in footprints down to 2x1.5mm with heights down to 1mm.

The RECOM DC/DC 'Book of Knowledge' gives an insight into the design methodologies used in your choice of DC/DC converter. www.recom-power.com/bok



DC/DC CONVERTERS

UNREGULATED

- 0.25 to 3 watts
- Isolation voltages up to 20 kVDC
- Industry standard pinout
- Economical designs available
- (/E) – high efficiency
- (/H) – high isolation
- (-R) – tape & reel packaging
- (/P) – short circuit protection
- Single (S), dual (D)

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 R0.25S (/E) R0.25D (DA)	0.25	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±3.3, ±5, ±9, ±12, ±15, ±24, 5/5, 12/12	1 or 3 kVDC / 1 s	SMD 12.75 x 10.7 x 6.7 mm (S) (0.5" x 0.4" x 0.3") 15.24 x 10.7 x 6.7 mm (D) (0.6" x 0.4" x 0.3")	EN/IEC/UL60950-1	Isolated independent dual outputs (A) operating temperature range: -40°C to +100°C
 RM	0.25	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15	1 or 2 kVDC / 1 s	SIP4 11.5 x 6.0 x 10.0 mm (0.5" x 0.2" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C higher isolation requirement 2kVDC
 R0.5S R0.5D	0.5	3.3, 5, 12, 24	5, 12, 15, ±5, ±12, ±15	1 or 3 kVDC / 1 s	SMD 12.75 x 10.7 x 6.7 mm (S) (0.5" x 0.4" x 0.3") 15.24 x 10.7 x 6.7 mm (D) (0.6" x 0.4" x 0.3")	UL60950-1	Operating temperature range: -40°C to +100°C
 ROL	0.5	5, 12	5, 12, 15	1 or 2 kVDC / 1 s	SIP4 11.5 x 6.0 x 10.0 mm (0.5" x 0.2" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C
 R1DA	1	3.3, 5, 9, 12, 15, 24	3.3/3.3, 5/5, 9/9, 12/12, 15/15	1 kVDC / 1 s	SMD 15.24 x 10.7 x 7.0 mm (0.6" x 0.4" x 0.3")	EN/UL60950-1	Isolated independent dual outputs operating temperature range: -40°C to +100°C
 R1S (/E) R1D	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24 ±3.3, ±5, ±9, ±12, ±15, ±24	1 or 3 kVDC / 1 s	SMD 12.75 x 10.7 x 7.0 mm (S) (0.5" x 0.4" x 0.3") 15.24 x 10.7 x 7.0 mm (D) (0.6" x 0.4" x 0.3")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +100°C economical design available (R1SE, R1SE/H2)
 R1SE	1	5	5	1 kVDC / 1 s	SMD 12.75 x 10.7 x 6.7 mm (0.5" x 0.4" x 0.3")	UL60950-1	Operating temperature range: -40°C to +85°C economical design
 R1SE/H2	1	3.3, 5, 12, 15	5, 12, 15	2 kVDC / 1 s	SMD 12.75 x 10.7 x 7.0 mm (0.5" x 0.4" x 0.3")	UL60950-1	Operating temperature range: -40°C to +100°C economical design

DC/DC CONVERTERS

UNREGULATED

- 0.25 to 3 watts
- Isolation voltages up to 20 kVDC
- Industry standard pinout
- Economical designs available
- (/E) – high efficiency
- (/H) – high isolation
- (-R) – tape & reel packaging
- (/P) – short circuit protection
- Single (S), dual (D)

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features		
 	R1SX R1DX	1	3.3, 5, 12	3.3, 5 ±5, ±9, ±12, ±15	1 or 3 kVDC / 1 s	SMD	12.75 x 10.8 x 5.8 mm (S) (0.5" x 0.4" x 0.2") 15.24 x 10.7 x 8.5 mm (D) (0.6" x 0.4" x 0.3")	EN/IEC/UL62368-1 UL60950-1	Operating temperature range: -40°C to +100°C pin compatible with R1S/R1D series economical design
	RAM	1	5, 12, 24	5	3.75 or 5 kVDC / 1 s	SMD	18.0 x 9.0 x 6.7 mm (0.7" x 0.3" x 0.2")	EN60950-1	Operating temperature range: -40°C to +100°C very low isolation capacitance (4pF)
	RB (/E)	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24 ±3.3, ±5, ±9, ±12, ±15, ±24	1 or 2 kVDC / 1 s	SIP7	19.6 x 6.0 x 10.2 mm (0.8" x 0.2" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C economical design available (RBE)
	RBE	1	5	5	1 kVDC / 1 s	SIP7	19.6 x 6.0 x 10.2 mm (0.8" x 0.2" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C industry standard economical design
	RBM	1	5, 12	5, 12, 15, ±5, ±12, ±15	3 kVDC / 1 s	SIP6 Micro	16.55 x 6.0 x 7.7 mm (0.7" x 0.2" x 0.3")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C
	RE	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24	1 or 2 kVDC / 1 s	SIP7	19.6 x 6.0 x 10.2 mm (0.8" x 0.2" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C economical design available (REE)
	REE	1	5	5	1 kVDC / 1 s	SIP7	19.6 x 6.0 x 10.2 mm (0.8" x 0.2" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C industry standard economical design
 	REM1	1	3.3, 5, 12, 15, 24	3.3, 5, 12	5.2 kVDC / 1 min 4 kVAC / 1 min	SIP7	19.6 x 6.0 x 10.2 mm (0.8" x 0.2" x 0.4")	ANSI/AAMI ES60601-1 EN62368-1 EN/IEC60601-1 IEC/EN60601-1-2	Reinforced isolation for 250VAC working voltage CF rated outputs, 5000m altitude operating temperature range: -40°C to +90°C

DC/DC CONVERTERS

UNREGULATED

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- Industry standard pinout
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- (/H) – high isolation
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- (/P) – short circuit protection
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Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RFB	1	5	5	1 kVDC / 1 s	SIP7 19.6 x 6.0 x 10.2 mm (0.7" x 0.2" x 0.4")	UL60950-1	1:1 input voltage range economical design
 RFM	1	5	5	1 kVDC / 1 s	SIP4 11.5 x 6.0 x 10.0 mm (0.4" x 0.2" x 0.4")	UL60950-1	Industry standard pinout economical design
 RFMM	1	5	5	4 kVDC / 1 s	SIP7 19.65 x 7.05 x 10.2 mm (0.7" x 0.3" x 0.4")	UL60950-1	Industry standard pinout economical design
 RK (/H) RH	1	5, 12, 15, 24	5, 9, 12, 15, ±5, ±9, ±12, ±15, +15/-9	3 or 4 kVDC / 1 s	SIP7 19.65 x 6.0 x 10.2 mm (0.8" x 0.2" x 0.4") 19.65 x 7.05 x 10.2 mm (/H) (0.8" x 0.3" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +90°C economical design available (RKE)
 RK/H6 RH/H6	1	5, 12, 15, 24	3.3, 5, 12, 15, ±3.3, ±5, ±12, ±15	6.4 kVDC / 1 s	SIP7 19.65 x 7.05 x 10.2 mm (0.8" x 0.3" x 0.4")	IEC/UL60950-1 IEC62368-1	Operating temperature range: -40°C to +90°C high capacitive load capability
 RKE/H	1	5, 12, 24	5	4 kVDC / 1 s	SIP7 19.6 x 7.05 x 10.2 mm (0.8" x 0.3" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C high isolation economical design
 RNM	1	3.3, 5, 12, 15	3.3, 5, 9, 12, 15	1 or 2 kVDC / 1 s	DIP6 8.3 x 8.3 x 6.8 mm (0.3" x 0.3" x 0.3")	EN/IEC/UL60950-1	Ultra compact design operating temperature range: -40°C to +85°C
 RO (/E)	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24	1 or 2 kVDC / 1 s	SIP4 11.5 x 6.0 x 10.0 mm (0.5" x 0.2" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C economical design available (ROE)

DC/DC CONVERTERS

UNREGULATED

- 0.25 to 3 watts
- Isolation voltages up to 20 kVDC
- Industry standard pinout
- Economical designs available
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- (/H) – high isolation
- (-R) – tape & reel packaging
- (/P) – short circuit protection
- Single (S), dual (D)

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 ROE	1	3.3, 5, 12, 15, 24	5, 12, 15	1 kVDC / 1 s	SIP4 11.5 x 6.0 x 10.0 mm (0.5" x 0.2" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C industry standard pinout economical design
 ROM	1	3.3, 5, 12	5, 12, 15	3 kVDC / 1 s	SIP4 Micro 11.5 x 6.0 x 7.7 mm (0.5" x 0.2" x 0.3")	EN/UL60950-1	Operating temperature range: -40°C to +85°C
 RP	1	5, 9, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±3.3, ±5, ±9, ±12, ±15, ±24 +15/-9	5.2 kVDC / 1 s	SIP7 19.65 x 7.05 x 10.2 mm (0.8" x 0.3" x 0.4")	EN/IEC60950-1 UL60950-1*	Operating temperature range: -40°C to +85°C * +15/-9 version excluded
 RU	1	3.3, 5	5/5	1 or 2 kVDC / 1 s	SIP7 19.6 x 6.0 x 10.2 mm (0.8" x 0.2" x 0.4")	EN60950-1	Isolated independent dual outputs operating temperature range: -40°C to +85°C
 RUM	1	3.3, 5	5/5	1 or 2 kVDC / 1 s	SIP6 16.55 x 6.0 x 7.7 mm (0.7" x 0.2" x 0.3")	EN60950-1	Isolated independent dual outputs operating temperature range: -40°C to +85°C low profile
 RxxPxx (/R)	1	5, 12, 15, 24	3.3, 5, 6, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15, +15/-9	6.4 or 8 kVDC / 1 s	SIP7 19.5 x 9.8 x 12.5 mm (0.8" x 0.4" x 0.5")	EN/IEC/UL60950-1 EN/IEC/UL62368-1 EN/IEC/UL60601-1 ANSI/AAMI ES60601-1	Medical approved (/R6.4 & /R8 versions) operating temperature range: -40°C to +90°C reinforced isolation (/R6.4 & /R8)
 RN	1.25	3.3, 5, 9, 12, 15, 24	3.3, 5, 7, 9, 12, 15, 24	1 or 2 kVDC / 1 s	DIP8 12.6 x 10.1 x 7.6 mm (0.5" x 0.4" x 0.3")	EN60950-1	Operating temperature range: -40°C to +85°C
 R2S R2D	2	5, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±5, ±9, ±12, ±15, ±24	1 or 3 kVDC / 1 s	SMD 12.75 x 10.7 x 9.0 mm (S) (0.5" x 0.4" x 0.4") 15.24 x 10.7 x 9.0 mm (D) (0.6" x 0.4" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +100°C

DC/DC CONVERTERS

UNREGULATED

- 0.25 to 3 watts
- Isolation voltages up to 20 kVDC
- Industry standard pinout
- Economical designs available
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- (/H) – high isolation
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- (/P) – short circuit protection
- Single (S), dual (D)

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 R2SX	2	5, 12, 24	3.3, 5, 15, 24	1 or 3 kVDC / 1 s	SMD 15.24 x 11.1 x 8.0 mm (0.6" x 0.4" x 0.4")	EN/IEC/UL62368-1 EN/IEC/UL60950-1	Operating temperature range: -40°C to +100°C no minimum load required economical design
 REM2	2	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, ±3.3, ±5, ±12	5.2 kVDC / 1 min	SIP8 23.0 x 8.0 x 12.2 mm (0.9" x 0.4" x 0.5")	ANSI/AAMI ES60601-1 CAN/CSA60601-1 IEC/EN62368-1 EN/IEC60601-1 EN60601-1-2	Operating temperature range: -40°C to +95°C reinforced isolation for 250VAC working voltage CF rated outputs, 5000m altitude
 RD	2	5, 12, 24	±5, ±12, ±15, ±24	1 or 2 kVDC / 1 s	SIP7 19.65 x 7.0 x 10.2 mm (0.8" x 0.3" x 0.4")	IEC/EN60950-1	Operating temperature range: -40°C to +85°C
 RI	2	5, 12, 15, 24	5, 12, 15	1 kVDC / 1 s	SIP4 11.5 x 7.6 x 10.2 mm (0.5" x 0.3" x 0.4")	IEC/EN60950-1	Operating temperature range: -40°C to +85°C
 RJZ RGZ	2	3.3, 5, 9, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±3.3, ±5, ±9, ±12, ±15, ±24, +15/-9	3 or 4 kVDC / 1 s	DIP14 19.9 x 10.0 x 7.1 mm (0.8" x 0.4" x 0.3")	IEC/EN60950-1	Operating temperature range: -40°C to +90°C
 RKZ	2	5, 12, 24	5, 12, 15, ±5, ±12, ±15, +15/-9	3 or 4 kVDC / 1 s	SIP7 19.65 x 7.05 x 10.2 mm (0.8" x 0.3" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C
 RKZE	2	5, 12, 15, 24	5, 9, 12, 15, ±5, ±12, ±15	3 or 4 kVDC / 1 s	SIP7 19.65 x 7.05 x 10.2 mm (0.7" x 0.3" x 0.4")	EN62368-1	Economical design /H suffix for 4kV Isolation
 RTM	2	5, 12, 24	5	2 or 3 kVDC / 1 s	SMD 18.0 x 8.7 x 7.15 mm (0.7" x 0.3" x 0.3")	EN60950-1	Operating temperature range: -40°C to +90°C



DC/DC CONVERTERS

UNREGULATED

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- Isolation voltages up to 20 kVDC
- Industry standard pinout
- Economical designs available
- (/E) – high efficiency
- (/H) – high isolation
- (-R) – tape & reel packaging
- (/P) – short circuit protection
- Single (S), dual (D)

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RHV2	2	5, 12, 24	5, 12, 24, ±5, ±12	20 kVDC / 1 s	SIP16 45.0 x 15.0 x 17.0 mm (1.7" x 0.6" x 0.7")	IEC/EN62368-1 IEC/EN61010-1	Compact SIP16 case with >30mm pin separation low 4pF max. isolation capacitance operating temperature range: -40°C to +85°C at full load
 RUZ	2	5	5/5	1 or 2 kVDC / 1 s	SIP7 19.65 x 7.0 x 10.2 mm (0.8" x 0.3" x 0.4")	IEC/EN60950-1	Isolated independent dual outputs operating temperature range: -40°C to +85°C
 RV (/R)	2	3.3, 5, 9, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±3.3, ±5, ±9, ±12, ±15, ±24, +15/-9	6, 6.4, or 8 kVDC / 1 s	DIP24 Micro 32.35 x 14.7 x 11.1 mm (1.3" x 0.6" x 0.4")	EN/UL60950-1 EN61010-1 ANSI/AAMI ES60601-1 IEC/EN/UL62368-1	Medical approved (/R6.4 & /R8 versions) operating temperature range: -40°C to +90°C single, dual or asymmetric output options
 RxxP2xx (/R)	2	5, 12, 15, 24	3.3, 5, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15, +15/-3, +15/-9, +20/-5	6.4 or 8 kVDC / 1 s	SIP7 19.5 x 9.8 x 12.5 mm (0.8" x 0.4" x 0.5")	EN/UL60950-1 EN/IEC/UL60601-1 ANSI/AAMI ES60601-1 IEC/EN/UL62368-1	Medical approved (/R6.4 & /R8 versions) operating temperature range: -40°C to +95°C single, dual or asymmetric output options
 RI3	3	5, 12, 15, 24	5, 9, 12, 15	1, 2, or 3 kVDC / 1 s	SIP4 11.5 x 7.6 x 10.2 mm (0.5" x 0.3" x 0.4")	EN/IEC/UL60950-1	Very high power density operating temperature range: -40°C to +100°C
 RKZ3	3	5, 12, 24	5, 12	3 or 4 kVDC / 1 s	SIP7 19.6 x 7.5 x 12.2 mm (0.8" x 0.3" x 0.5")	IEC/EN62368-1	High power density efficiency up to 90% pin-compatible with RK & RKZ
 RHV3	3	5, 12, 24	5, 12, 24, ±5, ±12	20 kVDC / 1 s	SIP16 45.0 x 15.0 x 17.0 mm (1.7" x 0.6" x 0.7")	IEC/EN62368-1 IEC/EN61010-1	Compact SIP16 case with >30mm pin separation low 4pF max. isolation capacitance operating temperature range: -40°C to +80°C at full load

DC/DC CONVERTERS

- 0.5 to 300 watts
- Isolation voltages up to 10 kVDC
- Short circuit protection
- Economical design available
- Modified standards available
- (-R) – tape & reel packaging
- (/P) – short circuit protection
- (Z), (W) – wide input range
- (-HC) – heatsink available
- (/SMD) – surface mount device
- (/M) – metal case

REGULATED

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 R0.5Z	0.5	5, 12, 15, 24	5, 12, 15	1 or 2 kVDC / 1 s	SMD 15.24 x 10.7 x 7.1 mm (0.6" x 0.4" x 0.3")	EN/UL60950-1	Operating temperature range: -40°C to +85°C regulated output with internal linear regulator
 R0.5ZX	0.5	5	5	1 or 2 kVDC / 1 s	SMD 15.24 x 11.1 x 8.5 mm (0.6" x 0.4" x 0.4")	IEC/EN60950-1 UL60950-1 EN/IEC/UL62368-1	Operating temperature range: -40°C to +100°C regulated output with internal linear regulator industry standard pinout
 R05CT05S	0.5	4.5-5.5	3.3, 3.7, 5.0, 5.4	5 kVAC / 1 min	SMD 10.3 x 7.5 x 2.65 mm (0.4" x 0.3" x 0.1")	ANSI/AAMI ES60601-1 UL/IEC/EN62368-1 IEC/EN60601-1	Operating temperature range: -40°C to +140°C 1kVAC working voltage CTRL, SYNC, and UVLO selectable outputs
 R05C05TE05S	0.5	4.5-5.5	5	3 kVDC / 1 min	SMD 10.35 x 7.5 x 2.5 mm (0.4" x 0.3" x 0.1")	IEC/EN62368-1	Ultra-wide operating temperature range: -40°C to +125°C low EMI emissions, low profile (2.5mm) economical design
 R05CTE05S	1	4.5-5.5	5	3 kVDC / 1 min	SMD 10.35 x 7.5 x 2.5 mm (0.4" x 0.3" x 0.1")	IEC/EN62368-1	Ultra-wide operating temperature range: -40°C to +125°C low EMI emissions, low profile (2.5mm) economical design
 RxxC1TFxxS	1	3-5.5	3.3, 5	2.5 kVAC / 1 min	LGA 5.0 x 4.0 x 1.18 mm (0.2" x 0.2" x 0.05")	N/A	Operating temperature range: -40°C to +125°C ultra-compact SMD package with low profile
 R1M/SMD	1	9-18, 18-36, 36-72	3.3, 5, 9, 12, 15, 24, ±5, ±12, ±15	1.6 kVDC / 1min	SMD 14.2 x 9.1 x 10.2 mm (0.6" x 0.4" x 0.4")	N/A	Operating temperature range: -40°C to 90°C efficiency up to 81%
 R1Z	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15	1 or 2 kVDC / 1 s	SMD 15.24 x 10.7 x 9.0 mm (0.6" x 0.4" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +70°C regulated output with internal linear regulator



new

DC/DC CONVERTERS

REGULATED

- 0.5 to 300 watts
- Economical design available
- (/P) – short circuit protection
- (/SMD) – surface mount device
- Isolation voltages up to 10 kVDC
- Modified standards available
- (Z), (W) – wide input range
- (/M) – metal case
- Short circuit protection
- (-R) – tape & reel packaging
- (-HC) – heatsink available

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 R1ZX	1	5	5	1 or 2 kVDC / 1 s	SMD 15.24 x 11.1 x 8.5 mm (0.6" x 0.4" x 0.4")	IEC/EN/UL60950-1 EN/IEC/UL62368-1	Operating temperature range: -40°C to +100°C regulated output with internal linear regulator industry standard pinout
 RAZ	1	5, 12, 24	5	1.25 or 2.5 kVDC / 1 s	SMD 18.0 x 8.7 x 7.8 mm (0.7" x 0.3" x 0.3")	IEC/EN60950-1 EN60601-1	Operating temperature range: -40°C to +85°C
 RKK	1	5	5	4 kVDC / 1 s	SIP7 19.6 x 6.0 x 10.2 mm (0.7" x 0.2" x 0.4")	EN/IEC/UL62368-1	Operating temperature range: -40°C to +105°C efficiency up to 82%
 RSO (Z)	1	4.5-9, 9-18, 18-36, 36-72 9-36, 18-72 (Z)	3.3, 5, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15	1, 2, or 3 kVDC / 1 s	SIP8 21.8 x 9.2 x 11.1 mm (0.9" x 0.4" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C economical design available (RSOK-Z)
 RSOK-Z/H3 (ADJ)	1	9-36	5, 12 (/ADJ)	3 kVDC / 1 min	SIP8 21.8 x 9.2 x 11.1 mm (0.9" x 0.4" x 0.4")	IEC/EN/UL62368-1	Operating temperature range: -40°C to +105°C /ADJ for adjustable output (3.3 - 17V) economical design
 RY	1	5, 9, 12, 15, 24	5, 9, 12, 15, 24 ±5, ±9, ±12, ±15, ±24	1 kVDC / 1 s	SIP7 19.65 x 7.05 x 10.2 mm (0.8" x 0.3" x 0.4")	EN60950-1	Control pin (on/off) operating temperature range: -40°C to +70°C
 RYK	1	5	3.3, 5	4 kVDC / 1 s	SIP7 19.6 x 6.0 x 10.2 mm (0.7" x 0.2" x 0.4")	EN/IEC/UL62368-1	Operating temperature range: -40°C to +105°C efficiency up to 81% post regulated
 R2M (/SMD)	2	9-18, 18-36, 36-72	3.3, 5, 9, 12, 15, 24, ±5, ±12, ±15	1.6 kVDC / 1 min	DIP8 13.2 x 9.1 x 10.2 mm (0.5" x 0.4" x 0.4") SMD 14.2 x 9.1 x 10.2 mm (0.6" x 0.4" x 0.4")	N/A	Operating temperature range: -40°C to 105°C efficiency up to 81%

DC/DC CONVERTERS

- 0.5 to 300 watts
- Economical design available
- (/P) – short circuit protection
- (/SMD) – surface mount device
- Isolation voltages up to 10 kVDC
- Modified standards available
- (Z), (W) – wide input range
- (/M) – metal case
- Short circuit protection
- (-R) – tape & reel packaging
- (-HC) – heatsink available

REGULATED

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RS (Z)	2	4.5-9, 9-18, 9-36, 18-36, 18-72, 36-72 (Z)	3.3, 5, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15	1, 2, or 3 kVDC / 1 s	SIP8 21.8 x 9.2 x 11.1 mm (0.9" x 0.4" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C economical design available (RSK-RUW)
 RSK-RUW/H3 (/ADJ)	2	4.5-36	5, 12 (/ADJ)	3 kVDC / 1 min	SIP8 21.8 x 9.2 x 11.1 mm (0.9" x 0.4" x 0.4")	IEC/EN/UL62368-1	Operating temperature range: -40°C to +105°C /ADJ for adjustable output (3.3 - 17V) economical design
 RTC2	2	4.5-9, 18-36	5	3 kVDC / 1 s	SMD 14.9 x 14.2 x 9.6 mm (0.6" x 0.6" x 0.4")	EN/IEC62368-1	Operating temperature range: -40°C to +100°C compact SMD package, control pin (on/off) economical design
 RSH2	2	2.8-5.5, 4.5-13.2, 9-18, 18-36	3.3, 5, 12, 15, 24	2 or 3 kVDC / 1 min	SMD 18.9 x 17.2 x 8.7 mm (0.7" x 0.7" x 0.3")	IEC/EN/UL62368-1 CAN/CSA-C22.2 NO. 62368-1	2W power in compact SMD package efficiency up to 84% operating temperature range: -40°C to +100 °C
 RW2	2	4.5-9, 9-18, 18-36, 36-72	3.3, 5, 12, 15, ±5, ±9, ±12, ±15	1, 2, or 3 kVDC / 1 s	Mini DIP16 22.1 x 12.55 x 8.5 mm (0.9" x 0.5" x 0.3") DIP16 24.2 x 14.50 x 9.7 mm (1.0" x 0.6" x 0.4") SMD 24.2 x 14.50 x 10.2 mm (1.0" x 0.6" x 0.4")	IEC/EN60950-1	Operating temperature range: -40°C to +85°C DIP16 Mini smaller case size (/B) SMD package available (/SMD)
 R3M/SMD	3	4.5-18, 9-36, 18-75	3.3, 5, 9, 12, 15, 24, ±5, ±12, ±15	1.6 kVDC / 1min	SMD 14.2 x 9.1 x 10.2 mm (0.6" x 0.4 x 0.4")	N/A	Operating temperature range: -40°C to +105°C efficiency up to 84%
 REC3A	3	4.5-9, 18-36	5	2 kVDC / 1 s	DIP24 31.8 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4")	UL60950-1 IEC/EN62368-1	Operating temperature range: -40°C to +100°C no minimum load required optional UVLO (X1) economical design
 REC3-R	3	4.5-5.75, 10.2-13.8, 20.4-27.6	5, 12, 15, ±5, ±12, ±15	1 kVDC / 1 s	DIP24 32.0 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") SMD 32.0 x 20.32 x 11.2 mm (1.3" x 0.8" x 0.4")	EN60950-1	Operating temperature range: -40°C to +80°C SMD package (/SMD) or metal case (/M)

DC/DC CONVERTERS

- 0.5 to 300 watts
- Economical design available
- (/P) – short circuit protection
- (/SMD) – surface mount device
- Isolation voltages up to 10 kVDC
- Modified standards available
- (Z), (W) – wide input range
- (/M) – metal case
- Short circuit protection
- (-R) – tape & reel packaging
- (-HC) – heatsink available

REGULATED

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 REC3-RW(Z)	3	4.5-9, 9-18, 18-36, 36-72 9-36, 18-72 (Z)	3.3, 5, 9, 12, 15, ±5, ±12, ±15	2, 4, or 6 kVDC / 1 s	DIP24 32.0 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") SMD 32.0 x 19.9 x 11.2 mm (1.3" x 0.8" x 0.4")	EN/UL60950-1	Operating temperature range: -40°C to +80°C SMD package (/SMD) or metal case (/M)
  REM3(W)	3	4.5-9, 9-18, 18-36, 36-75 9-36, 18-75 (W)	3.3, 5, 12, 15, 24, ±5, ±12, ±15	5 kVAC / 1min	DIP24 31.8 x 20.3 x 10.4 mm (1.3" x 0.8" x 0.4")	ANSI/AAMI ES60601-1 CAN/CSA60601-1 IEC/EN60601-1 EN60601-1-2	Reinforced isolation for 250VAC working voltage CF rated outputs, 5000m altitude operating temperature range: -40°C to +100°C
 RP03-RAW	3	36-160	3.3, 5, 12, 15, 24, ±5, ±12, ±15	3 kVAC / 1 min	DIP24 31.8 x 20.3 x 10.6 mm (1.3" x 0.8" x 0.4")	UL/IEC/EN62368-1 EN50155 EN45545-2	Designed for railway and industrial applications operating temperature range: -40°C to +105°C CE marked 3 kVAC/ 1 min reinforced insulation
 RS3 (Z)	3	4.5-9, 9-18, 18-36, 36-72 9-27, 20-60 (Z)	3.3, 5, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15	1, 2, or 3 kVDC / 1 s	SIP8 21.8 x 9.2 x 11.1 mm (0.9" x 0.4" x 0.4")	IEC/EN60950-1	Operating temperature range: -40°C to +71°C control pin (on/off) economical design available (RS3K-Z)
 RS3K-(Z)/H3	3	4.5-9 9-36(Z)	3.3, 5, 9, 12, 15, 24 ±5, ±12, ±15, ±24	3 kVDC / 1 min	SIP8 21.8 x 9.2 x 11.1 mm (0.9" x 0.4" x 0.4")	EN/IEC/UL62368-1	Operating temperature range: -40°C to +105°C efficiency up to 86%
 RSH3	3	9-18, 18-36	5, 12, 15, 24 ±12, ±15	3 kVDC / 1min	SMD 18.9 x 17.2 x 8.7 mm (0.7" x 0.7" x 0.3")	IEC/EN/UL62368-1 CAN/CSA-C22.2 NO. 62368-1	3W power in compact SMD package efficiency up to 83% operating temperature range: -40°C to +100°C
 RW	3	4.5-9, 9-18, 18-36, 36-72	3.3, 5, 9, 12, 15, ±5, ±9, ±12, ±15	1 kVDC / 1 s (S) 3 kVDC / 1 s (D)	DIP24 32.3 x 14.7 x 7.0 mm (S) (1.3" x 0.6" x 0.3") SMD 32.2 x 14.5 x 10.2 mm (S) (1.3" x 0.6" x 0.4") DIP24 32.0 x 17.5 x 7.0 mm (D) (1.3" x 0.7" x 0.3")	EN60950-1	Operating temperature range: -40°C to +85°C SMD package for RW-S available (/SMD)
 Rxx-B	3 5	4.5-6, 10-14, 14-17, 21-27	41-120, 50-135, 92-200	3 kVDC / 1 s	DIP24 31.8 x 20.3 x 9.4 mm (1.3" x 0.8" x 0.4")	EN/IEC60950-1	Adjustable output voltage up to 200VDC cascadable for output voltages up to 400VDC remote voltage programming by external voltage or resistance

DC/DC CONVERTERS

REGULATED

- 0.5 to 300 watts
- Economical design available
- (/P) – short circuit protection
- (/SMD) – surface mount device
- Isolation voltages up to 10 kVDC
- Modified standards available
- (Z), (W) – wide input range
- (/M) – metal case
- Short circuit protection
- (-R) – tape & reel packaging
- (-HC) – heatsink available

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 REC3.5/R	3.5	4.5-9, 9-18, 18-36, 36-75	5, 9, 12, 15, 24, ±5, ±9, ±12, ±15	8 or 10 kVDC / 1 s	DIP24 32.0 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4")	UL60950-1 EN/IEC/UL60601-1	Reinforced isolation (/R8 & /R10) operating temperature range: -40°C to +85°C no minimum load required
 REM3.5E	3.5	4.5-9, 9-18, 18-36, 36-75	5, 9, 12, 15, 24, ±5, ±9, ±12, ±15	8 or 10 kVDC / 1 s (DIP24) 6 kVDC / 1 min (SMD)	DIP24 31.8 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") SMD 31.8 x 20.3 x 11.2 mm (1.3" x 0.8" x 0.4")	EN/IEC/UL60601-1 ANSI/AAMI ES60601-1	250VAC working voltage isolation clearance and creepage distance >8mm up to 10kVDC reinforced insulation operating temperature range: -40°C to +85°C
 R5M/SMD	5	9-36, 18-75	3.3, 5, 9, 12, 15, 24, ±5, ±12, ±15	1.6 kVDC / 1 min	SMD 14.2 x 9.1 x 10.2 mm (0.6" x 0.4" x 0.4")	N/A	Operating temperature range: -40°C to +105°C efficiency up to 84%
 REC5K-AW /H4	5	9-36	5	4 kVDC / 1 s	1"x1" 25.4 x 25.4 x 10.0 mm (1.0" x 1.0" x 0.4")	EN/IEC/UL62368-1	Feedback regulated output derates to 110°C ambient temperature ON/OFF control pin UVLO and SCP
 REC5-RW (Z)	5	4.5-9, 9-18, 18-36, 36-72, 9-36, 18-72 (Z)	3.3, 5, 9, 12, 15, ±5, ±9, ±12, ±15	1.6, 2, 4, or 6 kVDC / 1 s	DIP24 31.8 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") SMD 31.8 x 19.9 x 11.2 mm (1.3" x 0.8" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +75°C SMD package (/SMD) or metal case (/M)
 REC5K-RW /H4/A (/ADJ)	5	9-36	5, 12 (/ADJ)	4 kVDC / 1 s	DIP24 32.1 x 20.6 x 10.2 mm (1.3" x 0.8" x 0.4")	EN/IEC/UL62368-1	Low ripple and noise derates to 110°C ambient temperature ON/OFF control pin, UVLO and SCP /ADJ for adjustable output
 REM5E	5	4.5-9, 9-18, 18-36, 36-75	5, 9, 12, 15, 24, ±5, ±9, ±12, ±15	8 or 10 kVDC / 1 s (DIP24) 6 kVDC / 1 min (SMD)	DIP 24 31.8 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") SMD 31.8 x 20.3 x 11.2 mm (1.3" x 0.8" x 0.4")	EN/IEC/UL60601-1 EN/IEC60601-1-2	250VAC working voltage isolation clearance and creepage distance >8mm up to 10kVDC reinforced insulation operating temperature range: -40°C to +85°C no derating
 REC6A	6	4.5-9, 18-36	5	2 kVDC / 1 s	DIP24 31.8 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4")	UL62368-1 UL60950-1 EN/IEC62368-1	Operating temperature range: -40°C to +100°C no minimum load required optional UVLO (/X1) economical design



DC/DC CONVERTERS

- 0.5 to 300 watts
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- (/SMD) – surface mount device
- Isolation voltages up to 10 kVDC
- Modified standards available
- (Z), (W) – wide input range
- (/M) – metal case
- Short circuit protection
- (-R) – tape & reel packaging
- (-HC) – heatsink available

REGULATED

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 REC6/R	6	4.5-9, 9-18, 18-36, 36-75	5, 9, 12, 15, 24, ±5, ±9, ±12, ±15	8 or 10 kVDC / 1 s	DIP24 32.0 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4")	UL60950-1 EN/IEC/UL60601-1	Reinforced isolation (/R8 & /R10) operating temperature range: -40°C to +75°C no derating pinning option (A) or (C), optional UVLO (X1)
 REM6(W)	6	4.5-9, 9-18, 18-36, 36-75 9-36, 18-75 (W)	3.3, 5, 12, 15, 24, ±5, ±12, ±15	5 kVAC / 1 min	DIP24 31.8 x 20.3 x 10.4 mm (1.3" x 0.8" x 0.4")	ANSI/AAMI ES60601-1 EN/ICE60601-1 EN60601-1-2	Reinforced isolation for 250VAC working voltage CF rated outputs, 5000m altitude operating temperature range: -40°C to +105°C
 REM6E	6	9-18, 18-36, 36-75	9, 12, 15, 24 ±9, ±12, ±15	8 or 10 kVDC / 1 s (DIP24) 6 kVDC / 1 min (SMD)	DIP24 31.8 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") SMD 31.8 x 20.3 x 10.9 mm (1.3" x 0.8" x 0.43")	ANSI/AAMI ES60601-1 EN/IEC60601-1-2 EN/IEC60601-1	2MOPP, 250VAC working voltage isolation clearance and creepage distance >8mm up to 10kVDC reinforced insulation operating temperature range: -40°C to +75°C no derating
 RP06-RAW	6	36-160	3.3, 5, 12, 15, 24 ±5, ±12, ±15	3 kVDC / 1 min	DIP24 31.8 x 20.3 x 10.6 mm (1.3" x 0.8" x 0.4")	UL/IEC/EN62368-1 EN50155 EN45545-2	Designed for railway and industrial applications operating temperature range: -40°C to +105°C CE marked 3 kVAC/ 1 min reinforced insulation
 RS6	6	4.5-9, 9-18, 18-36, 36-75	3.3, 5, 12, 15, ±5, ±12, ±15	1.6 kVDC / 1 min 2 kVDC / 1 s	SIP8 21.8 x 9.2 x 11.1 mm (0.9" x 0.4" x 0.4")	EN60950-1 EN/IEC62368-1	Very high power density operating temperature range -40°C to +75°C no derating
 REC7.5-RW	7.5	9-18, 18-36, 36-72	3.3, 5, 9, 12, 15, ±5, ±9, ±12, ±15	1, 2, or 3 kVDC / 1 s	DIP24 32.0 x 20.3 x 10.5 mm (1.3" x 0.8" x 0.4") SMD 32.0 x 19.9 x 11.2 mm (1.3" x 0.8" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +71°C no derating SMD package available (/SMD)
 REC8-RW(Z)	8	4.5-9, 9-18, 18-36, 36-75, 9-36, 18-75 (Z)	3.3, 5, 12, 15, ±5, ±12, ±15	2 or 3 kVDC / 1 s	DIP24 32.0 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") SMD 32.0 x 19.9 x 11.2 mm (1.3" x 0.8" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +85°C no derating SMD package available (/SMD)
 REC8E	8	9-18, 18-36, 20-60	5, 9, 12, 15, 24 ±12, ±15	1.6 kVDC / 1 min	1" x 1" 25.4 x 25.4 x 10.5 mm (1.0" x 1.0" x 0.4")	EN/IEC/UL62368-1 IEC60950-1	Compact 1"x1" package CTRL and UVLO standard Operating temperature range: -40°C to +75°C no derating

DC/DC CONVERTERS

- 0.5 to 300 watts
- Economical design available
- (/P) – short circuit protection
- (/SMD) – surface mount device
- Isolation voltages up to 10 kVDC
- Modified standards available
- (Z), (W) – wide input range
- (/M) – metal case
- Short circuit protection
- (-R) – tape & reel packaging
- (-HC) – heatsink available

REGULATED

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RPO8-A(W)	8	9-18, 18-36, 36-75 9-36, 18-75, 43-160 (W)	3.3, 5, 12, 15, ±5, ±12, ±15	1.6 kVDC / 1 min	DIP24 31.8 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") SMD 32.0 x 20.3 x 11.2 mm (1.3" x 0.8" x 0.4")	EN/IEC/UL60950-1 EN50155 EN50121-3-2	Operating temperature range: -40°C to +85°C RPO8-AW designed for railway applications
 REC10/M(Z)	10	9-18, 18-36, 36-75 9-36, 18-75 (Z)	3.3, 5, 12, 15, ±5, ±12, ±15	2 or 3 kVDC / 1 s	2" x 1" 50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +81°C no derating high isolation
 REC10-RW(Z)	10	9-18, 18-36, 36-75 9-36, 18-75 (Z)	3.3, 5, 12, 15, ±5, ±12, ±15	2 or 3 kVDC / 1 s	DIP24 32.0 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") SMD 32.0 x 19.9 x 11.2 mm (1.3" x 0.8" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +81°C no derating SMD package available (/SMD) high isolation
 REM10(W)	10	4.5-9, 9-18, 18-36, 36-75 9-36, 18-75 (W)	3.3, 5, 12, 15, 24, ±5, ±12, ±15	5 kVAC / 1 min	DIP24 31.8 x 20.3 x 10.4 mm (1.3" x 0.8" x 0.4")	EN/IEC60601-1 ANSI/AAMI ES60601-1 EN60601-1-2	Reinforced isolation for 250VAC working voltage CF rated outputs, 5000m altitude operating temperature range: -40°C to +100°C
 RP10-A(W)	10	9-18, 18-36, 36-75 9-36, 18-75 (W)	3.3, 5, 12, 15, 24, ±5, ±12, ±15	1.6 kVDC / 1 min	1" x 1" 25.4 x 25.4 x 9.9 mm (1.0" x 1.0" x 0.4")	UL60950-1	Operating temperature range: -40°C to +78°C no derating optional heatsink with clamps (-HC)
 RP10-E(W)	10	9-18, 18-36, 36-75 9-36, 18-75 (W)	3.3, 5, 12, 15, ±5, ±12, ±15	1.6 kVDC / 1 min	2" x 1" 50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	UL60950-1	Operating temperature range: -40°C to +78°C no derating optional heatsink with clamps (-HC)
 RP10-RAW	10	36-160	3.3, 5, 5.1, 2, 15, 24 ±5, ±12, ±15	3 kVDC / 1 min	DIP24 31.8 x 20.3 x 10.6 mm (1.3" x 0.8" x 0.4")	UL/IEC/EN62368-1 EN50155 EN45545-2	Designed for railway and industrial applications operating temperature range: -40°C to +105°C CE marked 3 kVAC/ 1 min reinforced insulation
 RS12-Z	12	9-36, 18-75	3.3, 5, 12, 15, 24	3 kVDC / 1 min	SIP8 21.8 x 9.6 x 12.1 mm (0.9" x 0.4" x 0.5")	UL/IEC/EN62368-1	Very high power density operating temperature range: -40°C to +80°C



DC/DC CONVERTERS

- 0.5 to 300 watts
- Economical design available
- (P) – short circuit protection
- (/SMD) – surface mount device
- Isolation voltages up to 10 kVDC
- Modified standards available
- (Z), (W) – wide input range
- (/M) – metal case
- Short circuit protection
- (-R) – tape & reel packaging
- (-HC) – heatsink available

REGULATED

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RP12-A(W)	12	9-18, 18-36, 36-75 9-36, 18-75 (W)	3.3, 5.1, 12, 15, ±5, ±12, ±15	1.6 kVDC / 1 min	DIP24 31.8 x 20.3 x 10.2 mm (1.3" x 0.8" x 0.4") SMD 32.0 x 20.3 x 11.2 mm (1.3" x 0.8" x 0.4")	UL60950-1	Operating temperature range: -40°C to +105°C
 RP12-AR	12	36-160	3.3, 5, 12, 15, 24, ±12, ±15, ±24	3 kVDC / 1 min	1" x 1" 25.4 x 25.4 x 9.9 mm (1.0" x 1.0" x 0.4")	IEC/EN60950-1 EN50155	Operating temperature range: -40°C to +100°C efficiency up to 90%
 REC15E-Z	15	9-36, 18-75	3.3, 5, 12, 15, 24, ±12, ±15	2 kVDC / 1 s	1" x 1" 25.4 x 25.4 x 10 mm (1.0" x 1.0" x 0.4")	EN/IEC/UL62368-1	Compact size 1" x 1" package, efficiency up to 90% operating temperature range: -40°C to +75°C no derating continuous short circuit protection
 REC15(-Z)/M	15	9-18, 18-36, 36-75 9-36, 36-75 (Z)	3.4, 5.1, 12, 15, ±5, ±12, ±15	2 or 3 kVDC / 1 s	2" x 1" 50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +71°C no derating, without CTRL pin (/X2)
 REM15-W	15	9-36, 18-75	5, 12, 15, 24 ±5, ±12, ±15	5 kVAC / 1 min	1.6" x 1" 40.6 x 25.4 x 10.2 mm (1.6" x 1.0" x 0.4")	UL60950-1 UL62368-1 IEC60601-1 EN60601-1-2 ANSI/AAMI ES60601-1	Reinforced insulation for 250VAC working voltage, clearance and creepage distance > 8mm 5kVAC I/P to O/P isolation operating temperature range: -40°C to +105°C
 RP15-A(W)	15	9-18, 18-36, 36-75 9-36, 18-75 (W)	3.3, 5, 12, 15, ±5, ±12, ±15	1.6 kVDC / 1 min	1" x 1" 25.4 x 25.4 x 9.9 mm (1.0" x 1.0" x 0.4")	UL60950-1	Operating temperature range: -40°C to +105°C optional heatsink with clamps (-HC)
 RP15-F(W)	15	9-18, 18-36, 36-75 9-36, 18-75 (W)	3.3, 5, 12, 15, ±5, ±12, ±15	1.6 kVDC / 1 min	2" x 1" 50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	UL60950-1	Operating temperature range: -40°C to +105°C optional heatsink with clamps (-HC)
 RPM(D)	15-60	9.5-18, 9.5-36, 10-40, (D) 18-36, 18-75, 36-75	3.3, 5, 12, 15, ±5, ±12, ±15 5/±12, 5/±15	1.6 kVDC / 1 min	101.6 x 57.2 x 19.0 mm (4.0" x 2.3" x 0.7") 24.5 x 57.6 x 125.0 mm (D) (1.0" x 2.3" x 4.9")	EN/IEC60950-1	Reverse polarity protected, soft start panel mount/bulkhead version RPM DIN-Rail version RPMD, screw terminals triple output only for 40W version available

DC/DC CONVERTERS

- 0.5 to 300 watts
- Economical design available
- (P) – short circuit protection
- (/SMD) – surface mount device
- Isolation voltages up to 10 kVDC
- Modified standards available
- (Z), (W) – wide input range
- (/M) – metal case
- Short circuit protection
- (-R) – tape & reel packaging
- (-HC) – heatsink available

REGULATED

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 REC20 (Z)	20	9-18, 18-36, 36-75, 9-36, 18-75 (Z)	3.4, 5.1, 12, 15 ±5, ±12, ±15	1.6 kVDC / 1 min	2" x 1" 50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4") 50.8 x 25.4 x 10.5 mm (Z) (2.0" x 1.0" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +100°C full load up to +80°C with natural convection continuous short circuit protection
 REM20-W	20	9-36, 18-75	5, 12, 15, 24 ±5, ±12, ±15	5 kVAC / 1 min	1.6" x 1" 40.6 x 25.4 x 10.2 mm (1.6" x 1.0" x 0.4")	UL60950-1 UL62368-1 IEC60601-1 EN60601-1-2 ANSI/AAMI ES60601-1	Reinforced insulation for 250VAC working voltage, clearance and creepage distance > 8mm 5kVAC I/P to O/P isolation
 RP20-A(W)	20	9-18, 18-36, 36-75, 9-36, 18-75 (W)	3.3, 5, 12, 15, ±12, ±15	1.6 kVDC / 1 min	1" x 1" 25.4 x 25.4 x 9.9 mm (1.0" x 1.0" x 0.4")	UL60950-1	Operating temperature range: -40°C to +102°C optional heatsink with clamps (-HC)
 RP20-F(W)	20	9-18, 18-36, 36-75, 9-36, 18-75 (W)	3.3, 5, 12, 15, ±12, ±15	1.6 kVDC / 1 min	2" x 1" 50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	UL60950-1	Operating temperature range: -40°C to +105°C optional heatsink with clamps (-HC)
 RP20-FR	20	9-36, 18-75 43-160	3.3, 5, 12, 15, ±12, ±15	2.25 kVDC / 1 min	2" x 1" 50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	UL60950-1 EN50155	Designed for railway applications, operating temperature range: -40°C to +79°C, up to +85°C with natural convection, optional heatsink with clamps (-HC), CE and EAC marked
 RPA20-AW	20	9-36	3.3, 5, 12, 15, ±12, ±15	1.6 kVDC / 1 min	1" x 1" 25.4 x 25.4 x 10.2 mm (1.0" x 1.0" x 0.4")	EN/IEC/UL60950-1 EN50155	Designed for low cost industrial applications operating temperature range: -40°C to +85°C optional glued heatsink (-HC)
 REC30 (Z)	30	9-18, 18-36, 36-75, 9-36, 18-75 (Z)	3.4, 5.1, 12, 15 ±12, ±15	1.6 kVDC / 1 min	2" x 1.6" 50.8 x 40.6 x 10.2 mm (2.0" x 1.6" x 0.4")	EN/IEC/UL60950-1	Operating temperature range: -40°C to +70°C continuous short circuit protection
 REC30E-Z	30	9-36, 18-75	3.3, 5, 12, 15, 24, ±12, ±15	2 kVDC / 1 min	1" x 1" 25.4 x 25.4 x 10.0 mm (1.0" x 1.0" x 0.4")	UL/IEC/EN62368-1	Operating temperature range: -40°C to +105°C efficiency up to 91%



DC/DC CONVERTERS

REGULATED

- 0.5 to 300 watts
- Economical design available
- (P) – short circuit protection
- (/SMD) – surface mount device
- Isolation voltages up to 10 kVDC
- Modified standards available
- (Z), (W) – wide input range
- (/M) – metal case
- Short circuit protection
- (-R) – tape & reel packaging
- (-HC) – heatsink available

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
  REM30-W	30	9-36, 18-75	5, 12, 15, 24 ±5, ±12, ±15	5 kVAC / 1 min	2" x 1" 50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	UL60950-1 UL62368-1 IEC6061-1 EN60601-1-2 ANSI/AAMI ES60601-1	Reinforced insulation for 250VAC working voltage clearance and creepage distance > 8mm 5kVAC I/P to O/P isolation industry standard pinout
 RP30-E(W)	30	9-18, 18-36, 36-75 10-40, 18-75 (W)	3.3, 5, 12, 15, ±12, ±15	1.6 kVDC / 1 min	2" x 1.6" 50.8 x 40.6 x 10.2 mm (2.0" x 1.6" x 0.4")	UL60950-1	Operating temperature range: -40°C to +100°C optional heatsink with clamps (-HC)
 RP30-F(W)	30	9-18, 18-36, 36-75 9-36, 18-75 (W)	3.3, 5, 12, 15, ±5, ±12, ±15	1.6 kVDC / 1 min	2" x 1" 50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	UL60950-1	Operating temperature range: -40°C to +101°C optional heatsink with clamps (-HC)
 RPA30-AW	30	9-36	3.3, 5, 12, 15, ±12, ±15	1.6 kVDC / 1 min	1" x 1" 25.4 x 25.4 x 10.2 mm (1.0" x 1.0" x 0.4")	EN/IEC/UL60950-1 EN50155	Designed for railway and industrial applications operating temperature range: -40°C to +100°C optional glued heatsink (-HC)
 RP40-FR	40	9-36, 18-75, 43-160	3.3, 5, 12, 15, 24, ±12, ±15, ±24	1.6 or 3 kVDC / 1 min	2" x 1" 50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	UL60950-1 EN50155 EN50121-3-2	Designed for railway applications operating temperature range: -40°C to +105°C optional heatsink with clamps (-HC) CE and EAC marked
 RP40-G(W)	40	9-18, 18-36, 36-75 9-36, 18-75 (W)	3.3, 5, 12, 15, ±12, ±15 5/±12, 5/±15	1.6 kVDC / 1 min	2" x 2" 50.8 x 50.8 x 10.2 mm (2.0" x 2.0" x 0.4")	UL60950-1	Operating temperature range: -40°C to +100°C optional heatsink with clamps (-HC) available as power module RPM40-G(W)
 RP40Q-RUW	40	16-160	5, 12, 15, 24, 48	3 kVAC / 1 min	1/4 brick 57.9 x 36.8 x 12.7 mm (2.3" x 1.4" x 0.5")	EN/IEC/UL62368-1 EN50155	12:1 ultra-wide input voltage range operating temperature range: -40°C to +105°C optional fitted heatsink (-HC), CE marked "B" for Bus & UVP adjustability
 RPA40-FR	40	36-160	5, 5.1, 12, 15, 24, ±12, ±15	3 kVAC / 1 min	2" x 1" 50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	UL/IEC/EN62368-1 EN45545-2 EN50155	Designed for railway and industrial applications operating temperature range: -40°C to +105°C efficiency up to 90%

DC/DC CONVERTERS

REGULATED

- 0.5 to 300 watts
- Isolation voltages up to 10 kVDC
- Short circuit protection
- Economical design available
- Modified standards available
- (-R) – tape & reel packaging
- (/P) – short circuit protection
- (Z), (W) – wide input range
- (-HC) – heatsink available
- (/SMD) – surface mount device
- (/M) – metal case

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RPA50S-W	50	18-75	3.3, 5, 12	2.25 kVDC / 1 min	1/16 brick 33.0 x 22.8 x 9.5 mm (1.3" x 0.9" x 0.4")	EN/IEC/UL60950-1	Economical design remote on/off and trim pins efficiency up to 91% Operating temperature range: -40°C to +85°C
 REM60-W	60	9-36, 18-75	5, 5.1, 12, 15, 24, ±12, ±15	3 kVAC / 1 min	1/4 brick 57.9 x 36.8 x 12.7 mm (2.3" x 1.4" x 0.5")	EN60601-1-2 ANSI/AAMI ES60601-1 UL/IEC/EN62368-1	Operating temperature range: -40°C to +105°C efficiency up to 90% 3 kVAC / 1 min reinforced isolation
 RP60-G	60	18-36, 36-75	3.3, 5, 12, 15	1.6 kVDC / 1 min	2" x 2" 50.8 x 50.8 x 10.2 mm (2.0" x 2.0" x 0.4")	UL60950-1	Operating temperature range: -40°C to +110°C optional heatsink with clamps (-HC) available as power module RPM60-G
 RP60Q-RUW	60	16-160	5, 12, 15, 24, 48	3 kVAC / 1 min	1/4 brick 57.9 x 36.8 x 12.7 mm (2.3" x 1.4" x 0.5")	EN/IEC/UL62368-1 EN50155	12:1 ultra-wide input voltage range operating temperature range: -40°C to +105°C optional fitted heatsink (-HC), CE marked "B" for Bus & UVP adjustability
 RPA60-FW	60	9-36	5, 12, 15, 24	1.5 kVDC / 1 min	2" x 1" 50.8 x 25.4 x 10.2 mm (2.0" x 1.0" x 0.4")	EN/IEC/UL60950-1 EN50155 EN50121-3-2	Designed for railway and industrial applications operating temperature range: -40°C to +100°C optional glued heatsink (-HC)
 RP75H-RW	75	9-36, 18-75, 43-160	5, 12, 15, 24, 48	2.25 kVDC / 1 min 3 kVAC / 1 min	1/2 brick 61.0 x 57.9 x 12.7 mm (2.4" x 2.3" x 0.5")	EN/IEC/UL60950-1 EN50155	Designed for railway and industrial applications operating temperature range: -40°C to +100°C 3 kVAC / 1 min reinforced isolation for 110VDC optional fitted heatsink (-HC), CE, and EAC marked
 RP90Q-RW	90	9-36, 16.5-75, 40-160	5, 12, 15, 24, 48	2.25 kVDC / 1 min 3 kVAC / 1 min	1/4 brick 57.9 x 36.8 x 12.7 mm (2.3" x 1.4" x 0.5")	EN/IEC60950-1 EN50155	Designed for railway and industrial applications operating temperature range: -40°C to +95°C 3 kVAC / 1 min reinforced isolation for 110VDC optional fitted heatsink (-HC), CE, and EAC marked
 RP100H-RW	100	9-36, 16.5-75, 43-160	5, 12, 15, 24, 48	2.25 kVDC / 1 min 3 kVAC / 1 min	1/2 brick 61.0 x 57.9 x 12.7 mm (2.4" x 2.3" x 0.5")	EN/IEC/UL60950-1 EN50155	Designed for railway and industrial applications operating temperature range: -40°C to +105°C 3 kVAC / 1 min reinforced isolation for 110VDC optional fitted heatsink (-HC), CE, and EAC marked



DC/DC CONVERTERS

REGULATED

- 0.5 to 300 watts
- Economical design available
- (/P) – short circuit protection
- (/SMD) – surface mount device
- Isolation voltages up to 10 kVDC
- Modified standards available
- (Z), (W) – wide input range
- (/M) – metal case
- Short circuit protection
- (-R) – tape & reel packaging
- (-HC) – heatsink available

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RPA100E-W	100	18-75	5, 12	1.5kVDC	1/8 brick 58.4 x 22.8 x 11.0 mm (2.3" x 0.9" x 0.4")	UL62368-1	Operating temperature range: -40°C to +85°C UVLO, OTP, OVP, OCP, and SCP economical design, selectable outputs CTRL and remote sense pins
 RPA100H-RUW	100	16.5-140	12, 15, 24, 48	4.242 kVDC / 1 min	1/2 brick 60.6 x 63.1 x 13.0 mm (2.4" x 2.5" x 0.5")	EN/IEC/UL60950-1 EN50155 EN50121-2-3	Designed for railway and industrial applications operating temperature range: -40°C to +97°C 4.242 kVDC reinforced isolation 10:1 ultra wide input range, CE, and EAC marked
 RP120Q-RW	120	9-36, 16.5-75, 40-160	5, 12, 15, 24, 48	2.25 kVDC / 1 min 3 kVAC / 1 min	1/4 brick 57.9 x 36.8 x 12.7 mm (2.3" x 1.4" x 0.5")	EN/IEC60950-1 EN50155	Designed for railway and industrial applications operating temperature range: -40°C to +95°C 3 kVAC / 1 min reinforced isolation for 110VDC optional fitted heatsink (-HC), CE, and EAC marked
 REC150H-UW	150	9-75	12, 24, 28, 48, 54	3 kVDC / 1 min	1/2 brick 61.0 x 57.9 x 12.7 mm (2.4" x 2.3" x 0.5")	IEC/EN62368-1 EN50155	Operating temperature range: -40°C to +105°C efficiency up to 90% OTP, OVP, OCP, UVLO, remote ON/OFF control
 RPA150E-EW	150	9-60	12, 24, 48	3 kVDC / 1min	1/8 brick 58.4 x 22.9 x 12.9 mm (2.3" x 0.9" x 0.5")	EN/IEC/UL60950-1 EN/IEC/UL62368-1 EN50155 EN45545-2	Designed for railway and industrial applications efficiency up to 92% wide +/-20% output voltage trim range operating temperature range: -40°C to +85°C no minimum load required
 RPA150Q-RUW	150	14.4-170	12, 15, 24, 54	4.242 kVDC / 1min	1/4 brick 60.6 x 39.0 x 12.7 mm (2.29" x 1.5" x 0.5")	UL62368-1 EN45545 EN50155	Designed for railway and industrial applications efficiency up to 90% output over-voltage protection operating temperature range: -40°C to 85°C reinforced isolation, 16:1 ultra-wide input
 RP180H-RW	180	9-36, 16.5-75, 43-160	5, 12, 15, 24, 48	2.25 kVDC / 1 min 3 kVAC / 1 min	1/2 brick 61.0 x 57.9 x 12.7 mm (2.4" x 2.3" x 0.5")	EN/IEC/UL60950-1 EN50155	Designed for railway and industrial applications operating temperature range: -40°C to +110°C 4.242 kVDC / 1 min reinforced isolation for 110VDC, optional fitted heatsink (-HC), CE, and EAC marked
 RPA200H-RUW	200	16.5-140	12, 15, 24, 48	4.242 kVDC / 1min	1/2 brick 60.6 x 63.1 x 13.0 mm (2.4" x 2.5" x 0.5")	EN/IEC/UL60950-1 EN50155	Designed for railway and industrial applications operating temperature range: -40°C to +93.5°C 4.242 kVDC / 1 min reinforced isolation 10:1 ultra wide input range, CE, and EAC marked

DC/DC CONVERTERS

REGULATED

- 0.5 to 300 watts
- Isolation voltages up to 10 kVDC
- Short circuit protection
- Economical design available
- Modified standards available
- (-R) – tape & reel packaging
- (/P) – short circuit protection
- (Z), (W) – wide input range
- (-HC) – heatsink available
- (/SMD) – surface mount device
- (/M) – metal case

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RP240H-RW	240	9-36, 16.5-75, 43-160	5, 12, 15, 24, 48	2.25 kVDC / 1 min 3 kVAC / 1 min	1/2 brick 61.0 x 57.9 x 12.7 mm (2.4" x 2.3" x 0.5")	EN/IEC/UL60950-1 EN50155	Designed for railway and industrial applications operating temperature range: -40°C to +110°C 3 kVAC / 1 min reinforced isolation for 110VDC optional fitted heatsink (-HC), CE, and EAC marked
 REC300H-W	300	9-36	12, 15, 24, 48	3 kVDC / 1 min	1/2 brick 61.0 x 57.9 x 12.7 mm (2.4" x 2.3" x 0.5")	EN62368-1	Operating temperature range: -40°C to +100°C efficiency up to 90% OTP, OVP, OCP, UVLO, remote ON/OFF control
 RPA300E	300	36-72	32	2.25 kVDC / 1 min	1/8 brick 58.4 x 22.8 x 12.7 mm (2.3" x 0.9" x 0.5")	UL62368-1	Operating temperature range: -40°C to +85°C UVLO, OTP, OVP, OCP, and SCP, economical design, selectable outputs, CTRL and remote sense pins, high efficiency up to 94.8%

DC/DC CONVERTERS

IGBT / SiC MOSFET / GaN

- Designed for SiC/IGBT/GaN gate drivers
- Up to 3 watts
- Isolation voltages up to 6.4 kVDC
- Alternate pinout and package styles
- Asymmetric output
- High efficiency
- High isolation
- (P) – short circuit protection

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RP-xx1509D RP-xx06S	1	5, 12, 24 5, 12, 15, 24	+15/-9 6	5.2 kVDC / 1 s	SIP7 19.65 x 7.05 x 10.2 mm (0.8" x 0.3" x 0.4")	EN/IEC/UL60950-1 IEC/EN60601-1	Designed for isolated IGBT or GaN drivers operating temperature range: -40°C to +85°C RP-xx06S series medical approved
 RxxP1509D RxxP06S	1	5, 12, 24 5, 12, 15, 24	+15/-9 6	6.4 kVDC / 1 s	SIP7 19.5 x 9.8 x 12.5 mm (0.8" x 0.4" x 0.5")	EN/IEC60950-1 EN/IEC/UL62368-1	Designed for isolated IGBT or GaN drivers operating temperature range: -40°C to +90°C
 RGZ-xx1509D	2	5, 12, 24	+15/-9	3 or 4 kVDC / 1 s	DIP14 19.9 x 10.0 x 7.1 mm (0.8" x 0.4" x 0.3")	EN60950-1	Asymmetrical outputs designed for isolated IGBT drivers operating temperature range: -40°C to +90°C
 RKZ-xx1509D RKZ-xx2005D	2	5, 12, 24 5, 12, 15, 24	+15/-9 +20/-5	3 or 4 kVDC / 1 s	SIP7 19.65 x 7.05 x 10.2 mm (0.8" x 0.3" x 0.4")	EN/IEC/UL60950-1	Asymmetrical outputs designed for isolated IGBT/SiC drivers operating temperature range: -40°C to +100°C
 RV-xx1509D	2	5, 12, 24	+15/-9	6 kVDC / 1 s	DIP24 32.35 x 14.7 x 11.1 mm (1.3" x 0.6" x 0.4")	EN60950-1	Asymmetrical outputs designed for isolated IGBT drivers operating temperature range: -40°C to +90°C
 RxxP21503D RxxP21509D RxxP22005D RxxP209S	2	12, 15, 24 5, 12, 24 5, 12, 15, 24 5, 12, 15, 24	+15/-3 +15/-9 +20/-5 9	6.4 kVDC / 1 s	SIP7 19.5 x 9.8 x 12.5 mm (0.8" x 0.4" x 0.5")	EN/IEC/UL60950-1 EN/IEC/UL62368-1	Asymmetrical outputs designed for isolated IGBT/SiC drivers operating temperature range: -40°C to +95°C
 RxxC2Txx	2	21-27	+2.5/- 22.5 -2.5/-22.5	3 kVAC / 1 min	SMD 12.83 x 7.5 x 3.55 mm (0.5" x 0.3" x 0.1")	N/A	Programmable asymmetrical output voltages compact 12.83x7.5mm 36 Pin SSO Package OPP, OTP, UVLO, and OVLO
 RA3/SMD	3	5, 12, 24	8, 9, +7/-1, +15/-3, +15/-5 +20/-5	5.2 kVDC / 1 min	DIP16 SMD 23.4 x 15.0 x 8.5 mm (0.9" x 0.6" x 0.3")	UL/IEC/EN62368-1 EN61204-3	Operating temperature range: -40°C to +85°C ideal for IGBT, Si, SiC, and GaN gate drive power isolation capacitance <10pf

POWER SOLUTIONS

PLUG & PLAY

- 40 to 4000 watts
- Interchangeable with Melcher RCM-series
- Approved as per latest standards
- Very wide and ultra wide input voltage range
- Reverse polarity protection
- Hold-up time 10ms included
- Inrush current limitation
- Compact design
- Output decoupling with OR-ing diode
- Remote control and Power good signal
- No external components needed
- Modified standards available
- Adjustable output voltage

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 COMING SOON RMD40-UW	40	14.4-154	24	4.2 kVDC	100.0 x 60.0 x 30.0 mm (3.9" x 2.3" x 1.2")	EN50155, EN62368-1 EN45545-2 EN50124-1 EN50121-3-2 EN61373	Full railway approved, ultra wide input 24V-110V base plate cooled for natural convection reinforced isolation, 50% peak load capability to 60W for 10s
 COMING SOON RMD75-UW	75	14.4-170	24	4.2 kVDC	110.0 x 73.0 x 40.0 mm (4.3" x 2.8" x 1.6")	EN50155 IEC/EN62368-1 EN45545-2 EN50124-1 EN50121-3-2 EN61373	Full railway approved base plate cooled for natural convection reinforced isolation, ultra wide input 24V-110V 20% peak load capability to 90W for 10s
new  RMD150-UW (-E)	150	14.4-154	24	5 kVDC	188.6 x 116.0 x 42.5 mm (7.4" x 4.6" x 1.7")	EN50155 IEC/EN62368-1 EN50121-3-2 EN50124-1 EN45545-2 EN61373	Ultra wide input range for 24V-110Vnom, efficiency up to 94%, designed for natural convection, "-E" for extended ambient temperature range (-50°C to +90°C), 10% peak load capability to 165W for 10 s
new  RMD300-UW (-E)	300	14.4-170	24, 110	5 kVDC	209.0 x 141.0 x 48.0 mm (8.2" x 5.5" x 1.9")	EN50155 IEC/EN62368-1 EN50121-3-2 EN50124-1 EN45545-2 EN61373	Ultra wide input range for 24V-110Vnom, efficiency up to 95%, designed for natural convection, 10% peak load capability to 330W for 10s, "-E" for extended ambient temperature range (-50°C to +90°C)
new  RMOD300-UW	300	18-126	12.2, 13.7, 24.5	2.25 kVDC	190.0 x 76.0 x 44.0 mm (7.5" x 3.0" x 1.7")	UL60950 EN12895 CISPR11 Class A ISO7637-2	IP67 protection for selective model operating temperature range: -40°C to +75°C protections: input reverse polarity input UVLO, output OCL, SCP, OVP, OTP
new  RMOD360-UW	360	18-126	24.5	2.25 kVDC	190.0 x 76.0 x 44.0 mm (7.5" x 3.0" x 1.7")	UL60950 EN12895 CISPR11 Class A ISO7637-2	Operating temperature range: -40°C to +75°C protections: input reverse polarity input UVLO, output OCL, SCP, OVP, OTP
 RMOD400-EW	400	24-120	13	2.5 kVDC / 1 min	203.0 x 115.0 x 61.0 mm (8.0" x 4.5" x 2.4")	EN12895/CISPR11 Class A CE/ISO7637-2 IEC/EN/UL62368-1	IP69k protection for selective model operating temperature range: -35°C to +85°C protections: input reverse polarity input UVLO, output OCL, SCP, OVP, OTP
 RMOD400-W	400	12-56 24-96	13, 24	2.5 kVDC / 1 min	203.0 x 115.0 x 61.0 mm (8.0" x 4.5" x 2.4")	EN12895/CISPR11 Class A CE/ISO7637-2 IEC/EN/UL62368-1	IP65 (24V)/IP69k (13V) protection for selective model, operating temperature range: -35°C to +70/85°C, protections: input reverse polarity, input UVLO, output OCL, SCP, OVP, OTP

POWER SOLUTIONS

PLUG & PLAY

- 40 to 4000 watts
- Interchangeable with Melcher RCM-series
- Approved as per latest standards
- Very wide and ultra wide input voltage range
- Reverse polarity protection
- Hold-up time 10ms included
- Inrush current limitation
- Compact design
- Output decoupling with OR-ing diode
- Remote control and Power good signal
- No external components needed
- Modified standards available
- Adjustable output voltage

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Certifications	Other features
 RMD500-EW	500	43.2-170	24	5 kVDC	209.0 x 141.0 x 48.0 mm (8.23" x 5.56" x 1.9")	EN50155 EN50124-1 IEC/EN62368-1 EN61373	Temperature class OT4 ST1 & ST2 -40°C/+85°C efficiency up to 95% designed for natural convection and baseplate cooling
 RMOD500-W (/OR)	500	32-96	13.7, 12.4, 24.5 13, 11.7, 23.5 (/OR)	2.25 kVDC	198.0 x 113.0 x 45.0 mm (7.8" x 4.4" x 1.8")	IEC/EN/UL62368-1 EN12895-2015 EN55011 EN55014-2 CISPR11 Class A	IP67 protection, operating temperature range: -40°C to +90°C, protections: input reverse polarity, input UVLO, output OCL, SCP, OVP, OTP, control ON/OFF function
 RMOD600- EW	600	24-120	13	2.5 kVDC / 1 min	203.0 x 115.0 x 71.0 mm (8.0" x 4.5" x 2.8")	EN12895/CISPR11 Class A CE/ISO7637-2 IEC/EN/UL62368-1	IP69k protection for selective model operating temperature range: -35°C to +80°C protections: input reverse polarity input UVLO, output OCL, SCP, OVP, OTP
 RMOD600-W	600	24-120	24	2.5 kVDC / 1 min	203.0 x 115.0 x 71.0 mm (8.0" x 4.5" x 2.8")	CISPR11 Class A CE/ISO7637-2 IEC/EN/UL62368-1	IP65 protection for selective model operating temperature range: -35°C to +85°C protections: input reverse polarity input UVLO, output OCL, SCP, OVP, OTP
  RMD1000-W	600-1000	24, 36, 48, 72, 110	24, 36, 48, 72, 110	2.2 kVAC	257.5 x 197 x 69.0 mm (10.2" x 9.7" x 3.1")	EN50155 EN62368-1 EN50121-3-2 EN50124-1 EN45545-2 EN61373	Designed for natural convection, and base plate cooling, flexible input - output voltage combination, temperature class OT4 ST1 & ST2 -40°C/+85°C
  RMOD2000- EW	2000	180-950	14, 28	3 kVDC	316.0 x 254.0 x 83.0 mm (12.4" x 10.0" x 3.3")	EN62477-1 EN/ISO 114521 ECE R10	Supports nominal voltages from 250V to 800V high voltage DC/DC for e-mobility high IP level, liquid cooled or base plate cooled
  RMOD4000- EW	4000	180-950	14, 28	3 kVDC	316.0 x 254.0 x 83.0 mm (12.4" x 10.0" x 3.3")	EN62477-1 EN/ISO 114521 ECE R10	Supports nominal voltages from 250V to 800V high voltage DC/DC for e-mobility high IP level, liquid cooled or base plate cooled

ACCESSORIES FOR DC/DC CONVERTERS

- SMD wire-wound power inductor suitable for EMC filtering
- Reflow solderable with J-STD-020C standard profile (250°C ±5°C peak)

LINE INDUCTORS

Series	Description	Suitable for	Other features
 RLS-397	saturation current: 2.1A, inductance: 3.9μH	R3, RS, RSO, R1Z, RS3, R-78xx-1.0, R-78xx-0.5, R-78Exx-0.5, R-78AAxx-0.5, R-78Bxx-1.5, R-78Bxx-1.0L	Tested and approved in RECOM filter design RoHS compliant
 RLS-567	saturation current: 1.9A, inductance: 5.6μH	RK/H6, R13, RS, RS3, RW2, R-78xx-1.0, R-78xx-0.5, R-78AAxx-0.5, R-78Cxx-1.0, R-78Bxx-1.5	Tested and approved in RECOM filter design RoHS compliant
 RLS-126	saturation current: 1.4A, inductance: 12μH	R1S, R2S, R1SE, RH/H6, RKZ, RS, RSO, REC5, R1Z, R-78Exx-1.0, R-78Exx-0.5, R-78Cxx-1.0, R-78Bxx-1.5	Tested and approved in RECOM filter design RoHS compliant
 RLS-186	saturation current: 2.14A, inductance: 18μH	REC5	Tested and approved in RECOM filter design RoHS compliant
 RLS-226	saturation current: 1.0A, inductance: 22μH	RO, RM, ROM, RK, RB, RP, RE, ROE, RK/H6, RH/H6, RxxPxx, RKZ, REC5, RW2	Tested and approved in RECOM filter design RoHS compliant
 RLS-686	saturation current: 1.05A, inductance: 68μH	R-78Exx-1.0	Tested and approved in RECOM filter design RoHS compliant
 RLS-105	saturation current: 1.1A, inductance: 100μH	REC5	Tested and approved in RECOM filter design RoHS compliant

ACCESSORIES FOR DC/DC CONVERTERS

SURGE PROTECTORS

Series	Power (W)	V _{in}	V _{out} (VDC)	Isolation	Case / Dimensions (LxWxH)	Comply with	Other features
 RSP20-168	20	40-160	168VDC Clamping Voltage	N/A	DIP24 31.8 x 20.3 x 10.2 mm (1.25" x 0.8" x 0.4")	UK BRB/RIA12 NF F 01-510	Output follows input up to the clamp voltage compliant with RIA12 and NF F 01-510 surge susceptibility operating temperature range: -40°C to +95°C
 RSP150-168	150	40-160	168VDC Clamping Voltage	N/A	1.6" x 1" 40.6 x 25.4 x 10.2 mm (1.6" x 1.0" x 0.4")	UK BRB/RIA12 NF F 01-510	Output follows input up to the clamp voltage operating temperature range: -40°C to +100°C compliant to RIA12 and NF F 01-510 surge susceptibility
 RSP300-168	300	40-160	168VDC Clamping Voltage	N/A	1.6" x 1" 40.6 x 25.4 x 10.2 mm (1.6" x 1.0" x 0.4")	UK BRB/RIA12 NF F 01-510	Output follows input up to the clamp voltage operating temperature range: -40°C to +100°C compliant to RIA12 and NF F 01-510 surge susceptibility

SWITCHING REGULATORS

STEP DOWN

- Standard pinout
- MTBF up to 21 million hours
- (-R) – tape & reel packaging
- (-Tray) - tray packaging
- Short circuit protection
- Very high efficiency up to 98%
- Internal SMD construction
- Wide operating temperature range
- No heatsink required

Series	Output current (A)	Vin (VDC)	Vout (VDC)	Case / Dimensions (LxWxH)	Certifications	Other features
 R-78HE-0.3	0.3	6.5-72	5	SIP3 11.5 x 8.5 x 12.5 mm (0.5" x 0.3" x 0.7")	N/A	Wide input range (6.5V - 72V) 100V surge with stand operating temperature range: -40°C to +105°C at 48V input, full load
 R-78HB-0.5 R-78HB-24-0.3	0.5 (0.3)	9-72 (36-72)	3.3, 5, 6.5, 9, 12, 15 (24)	SIP3 11.5 x 8.5 x 17.5 mm (0.5" x 0.3" x 0.7")	EN/IEC60950-1	Operating temperature range: -40°C to +85°C high input voltage 90° pins (L)
 R-78CK-0.5 series	0.5	5-40	3.3, 5, 12, 15	SIP3 11.5 x 7.55 x 10.2 mm (0.5" x 0.3" x 0.4")	EN/IEC62368-1	Operating temperature range: -40°C to +100°C pin-out compatible with LM78xx linears up to 96% efficiency
 R-78K-0.5 series	0.5	4.5-36	1.5, 1.8, 2.5, 3.3, 5, 6.5, 9, 12, 15	SIP3 11.5 x 7.55 x 10.2 mm (0.5" x 0.3" x 0.4")	EN/IEC62368-1	Operating temperature range: -40°C to + 90°C without derating, pin compatible with 78 series regulators, undervoltage protection up to 96% efficiency
 R-78HB-0.5/W series	0.5	9-72	5, 12	SIP3 12.1 x 9.7 x 24.0 mm (0.5" x 0.4" x 0.9")	EN/IEC60950-1	Operating temperature range: -40°C to +85°C high input voltage flying wires
 R-78W-0.5 series	0.5	6.5-32	3.3, 5, 9, 12	SIP3 11.5 x 8.5 x 17.5 mm (0.5" x 0.3" x 0.7")	EN/IEC60950-1	Operating temperature range: -40°C to +85°C flying wires up to 96% efficiency
 R-78AA-0.5SMD	0.5	4.75-32	1.5, 1.8, 2.5, 3.3, 5, 6.5, 9, 12, 15	SMD 15.3 x 9.6 x 8.8 mm (0.6" x 0.4" x 0.4")	EN/IEC60950-1	Operating temperature range: -40°C to +85°C adjustable output, on/off pin up to 97% efficiency
 ROF-78E	0.5	5-36	3.3, 5, 12	SMD 12.5 x 13.5 x 4.0 mm (0.5" x 0.5" x 0.2")	N/A	Economical design, low profile operating temperature range: -40°C to +85°C pinless design, on/off pin

SWITCHING REGULATORS

STEP DOWN

- Standard pinout
- MTBF up to 21 million hours
- (-R) – tape & reel packaging
- (-Tray) – tray packaging
- Short circuit protection
- Very high efficiency up to 98%
- Internal SMD construction
- Wide operating temperature range
- No heatsink required

Series	Output current (A)	Vin (VDC)	Vout (VDC)	Case / Dimensions (LxWxH)	Certifications	Other features
 R-78K-1.0	1.0	4.5-36	1.8, 2.5, 3.3, 5, 9, 12, 15	SIP3 11.5 x 7.55 x 10.2 mm (0.5" x 0.3" x 0.4")	EN/IEC62368-1	Operating temperature range: -40°C to + 90°C without derating, pin compatible with 78 series regulators, undervoltage protection up to 95% efficiency
 R-78AA-1.0SMD	1.0	4.75-18	1.5, 1.8, 2.5, 3.3, 5	SMD 15.3 x 9.6 x 8.8 mm (0.6" x 0.4" x 0.4")	EN/IEC60950-1	Operating temperature range: -40°C to +85°C adjustable output, on/off pin
 R-78B-1.0	1.0	4.75-32	1.5, 1.8, 2.5, 3.3, 5, 6.5, 9, 12, 15	SIP3 11.5 x 8.5 x 17.5 mm (0.5" x 0.3" x 0.7")	EN/IEC60950-1	Operating temperature range: -40°C to +85°C 90° pins (L), input voltage up to 32V efficiency up to 97% output voltage up to 15V
 R-78C-1.0	1.0	5-42	1.8, 3.3, 5, 9, 12, 15	SIP3 11.6 x 8.5 x 10.4 mm (0.5" x 0.3" x 0.4")	EN/IEC60950-1	Operating temperature range: -40°C to +85°C output voltage up to 15V input voltage up to 42V 1A continuous in small package
 R-78T-1.0	1.0	7-42	3.3, 5, 12	SMD 23.0 x 27.2 x 10.0 mm (/AC or /AL) (0.9" x 1.1" x 0.4") 23.0 x 29.4 x 8.0 mm (/FC) (0.9" x 1.2" x 0.3")	N/A	Operating temperature range: -40°C to +85°C input voltage up to 42V
 R-78B-1.5 (L)	1.5	4.5-18	3.3, 5, 6.5	SIP3 11.5 x 8.5 x 17.5 mm (0.5" x 0.3" x 0.7")	IEC/EN60950-1	Operating temperature range: -45°C to +85°C "L" version with 90° pins efficiency up to 95%
 R-78K-2.0(L)	2.0	4.5-36	1.2, 1.5, 1.8, 2.5, 3.3, 5, 9, 12, 15	SIP3 11.5 x 8.5 x 17.5 mm (0.5" x 0.3" x 0.7")	EN/IEC62368-1	Operating temperature range: -40°C to + 90°C without derating, pin compatible with 78 series regulators, "L" version with 90° pins efficiency up to 96%
 R-5xxxA	2, 3, 4, 5	4.5-18	1.2, 1.8, 2.5, 3.3, 5	SIP12 32.2 x 9.1 x 15.0 mm (1.3" x 0.4" x 0.6")	IEC/EN60950-1	Operating temperature range: -40°C to +85°C auto sense adjustable output, 90° pins (DA) control pin (on/off)

SWITCHING REGULATORS

- Standard pinout
- MTBF up to 21 million hours
- (-R) – tape & reel packaging
- (-Tray) - tray packaging
- Short circuit protection
- Very high efficiency up to 98%
- Internal SMD construction
- Wide operating temperature range
- No heatsink required

STEP DOWN

Series	Output current (A)	Vin (VDC)	Vout (VDC)	Case / Dimensions (LxWxH)	Certifications	Other features
 R-6xxx	1-2	9-32	1.8, 2.5, 3.3, 5, 9, 12	SIP12 32.2 x 9.1 x 15.0 mm (1.3" x 0.4" x 0.6")	IEC/EN60950-1	Operating temperature range: -40°C to +85°C adjustable output, 90° pins (D) control pin (on/off) efficiency up to 97%
 R-7xxx	2, 3, 4	4.5-28	3.3, 5, 6.5, 9, 12, 15	SIP12 32.2 x 9.1 x 15.0 mm (1.3" x 0.4" x 0.6")	IEC/EN60950-1	Operating temperature range: -40°C to +85°C adjustable output, 90° pins (D) control pin (on/off) efficiency up to 97%
 RPMA-4.5 RPMA-8.0	4.5 8	9-53	5-30 3.3-16.5	1/32 brick 19.1 x 23.4 x 9.6 mm (0.75" x 0.9" x 0.4")	N/A	Ultra-wide operating temperature range: -40°C to +85°C OCP and OTP, CTRL, and remote sense selectable outputs
 RPMGE-10	10	18-75	5, 12	1/8 brick 56.4 x 22.9 x 11.97 mm (2.2" x 0.9" x 0.5")	N/A	Operating temperature range: -40°C to +120°C efficiency up to 92% adjustable output from 3.3 to 15VDC
 RPMGS-20	20	18-75	3.3-8 8-24	1/16 brick 36.83 x 34.04 x 15.0 mm (1.4" x 1.3" x 0.6")	N/A	Ultra-wide operating temperature range: -40°C to +120°C, efficiency up to 97% UVLO, OTP, and OCP protected adjustable output voltage
 RPMGQ-20	20	18-75	3.3-8 8-24	1/4 brick 56.4 x 36.83 x 15.0 mm (2.2" x 1.4" x 0.6")	N/A	Ultra-wide operating temperature range: -40°C to +120°C, efficiency up to 97% UVLO, OTP, and OCP protected adjustable output voltage
 RPMGH-40	40	18-75	5, 12	1/2 brick 61.0 x 57.9 x 14.89 mm (2.4" x 2.3" x 0.6")	N/A	Operating temperature range: -40°C to +120°C high efficiency up to 97% adjustable output voltage from 3.3 to 24VDC



SWITCHING REGULATORS

POWER MODULES

- Advanced 3D Power Packaging
- No heatsink required
- Compact SMD footprint

- 0.5 to 20A
- Wide operating temperature range
- Trimmable outputs

- High efficiency up to 99%
- Short circuit protection
- Fully-automated production

Series	Output current (A)	Vin (VDC)	Vout (VDC)	Case / Dimensions (LxWxH)	Certifications	Other features
5VIN BUCK						
new 	RPZ-0.5	0.5	2.3-5.5	0.6-5.375	QFN 2.0 x 2.0 x 1.6 mm (0.08" x 0.08" x 0.06")	N/A SCP, OCP, OVP, and UVLO efficiency up to 91% operating temperature range: -40°C to +125°C (with derating)
new 	RPZ-1.0	1	2.3-5.5	0.6-5.25	QFN 2.0 x 2.0 x 1.6 mm (0.08" x 0.08" x 0.06")	N/A SCP, OCP, and UVLO efficiency up to 88% operating temperature range: -40°C to +125°C (with derating) ultra compact design with low profile (1.6mm)
new 	RPZ-2.0	2	2.75-6	0.6-5.74	QFN 2.5 x 3.5 x 1.6 mm (0.1" x 0.14" x 0.06")	N/A SCP, OCP, and UVLO efficiency up to 90% operating temperature range: -40°C to +90°C (full load) ultra compact design with low profile (1.6mm)
new 	RPZ-3.0A	3	2.75-6	0.6-5.5	QFN 2.5 x 3.5 x 1.6 mm (0.1" x 0.14" x 0.06")	N/A SCP, OCP, OTP, and UVLO efficiency up to 92% operating temperature range: -40°C to +125°C (with derating)
new 	RPZ-6.0	6	2.75-7	0.6-6.65	QFN 4.0 x 6.0 x 1.6 mm (1.16" x 0.24" x 0.63")	N/A SCP, OCP, OTP, and UVLO efficiency up to 90% operating temperature range: -40°C to +125°C (with derating)
12VIN BUCK						
new 	RPL-1.0	1	3-22	0.6-12	LGA-11 3.0 x 3.0 x 2.0 mm (0.12" x 0.12" x 0.08")	N/A SCP, OCP, OTP, and UVLO efficiency up to 84% operating temperature range: -40°C to +125°C (with derating) compact design with low profile (2mm)
	RPM-1.0	1	3-17	3.3, 5 trimmable 0.9-6.0V	LGA-25 12.19 x 12.19 x 3.75 mm (0.5" x 0.5" x 0.2")	N/A Operating temperature range: -40°C to +107°C at full load very high efficiency up to 99% 6-sided shielding for low EMI

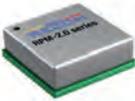
SWITCHING REGULATORS

POWER MODULES

- Advanced 3D Power Packaging
- No heatsink required
- Compact SMD footprint

- 0.5 to 20A
- Wide operating temperature range
- Trimmable outputs

- High efficiency up to 99%
- Short circuit protection
- Fully-automated production

Series	Output current (A)	Vin (VDC)	Vout (VDC)	Case / Dimensions (LxWxH)	Certifications	Other features
 RPM-2.0	2	3-17	3.3, 5 trimmable 0.9-6.0V	LGA-25 12.19 x 12.19 x 3.75 mm (0.5" x 0.5" x 0.2")	N/A	Operating temperature range: -40°C to +105°C at full load very high efficiency up to 98% 6-sided shielding for low EMI
 RPL-3.0	3	4-18	0.8-5.2	LGA-10 3.0 x 3.0 x 1.45 mm (0.1" x 0.1" x 0.06")	N/A	Very high power density 3A maximum output current very low 1.45mm profile enable, sense, and power good functions
 RPM-3.0	3	3-17	3.3, 5 trimmable 0.9-6.0V	LGA-25 12.19 x 12.19 x 3.75 mm (0.5" x 0.5" x 0.2")	N/A	Operating temperature range: -40°C to +105°C at full load very high efficiency up to 97% 6-sided shielding for low EMI
new  RPL-5.0	5	2.75-17	0.6-12	QFN 4.0 x 6.0 x 1.6 mm (1.16" x 0.24" x 0.63")	N/A	SCP, OCP, and UVLO efficiency up to 90% operating temperature range: -40°C to +125°C (with derating)
 RPM-6.0	6	3-17	3.3, 5 trimmable 0.9-6.0V	LGA-25 12.19 x 12.19 x 3.75 mm (0.5" x 0.5" x 0.2")	N/A	Operating temperature range: -40°C to +90°C at full load very high efficiency up to 99% 6-sided shielding for low EMI
new  RPL-10	10	4-16	0.6-5.5	LGA-29 7.0 x 7.0 x 4.4 mm (0.28" x 0.28" x 0.17")	N/A	SCP, OCP, OTP, and UVLO efficiency up to 94% operating temperature range: -40°C to +125°C (with derating)
new  RPL-20	20	4-16	0.6-5.5	LGA-29 7.0 x 7.0 x 4.4 mm (0.28" x 0.28" x 0.17")	N/A	SCP, OCP, OTP, and UVLO efficiency up to 94% operating temperature range: -40°C to +125°C (with derating)

SWITCHING REGULATORS

POWER MODULES

- Advanced 3D Power Packaging
- No heatsink required
- Compact SMD footprint

- 0.5 to 20A
- Wide operating temperature range
- Trimmable outputs

- High efficiency up to 99%
- Short circuit protection
- Fully-automated production

Series	Output current (A)	Vin (VDC)	Vout (VDC)	Case / Dimensions (LxWxH)	Certifications	Other features		
24VIN BUCK								
 	RPX-0.5Q	0.5	4-36	0.8-30	QFN	3.0 x 5.0 x 1.6 mm (0.1" x 0.2" x 0.06")	N/A	AEC-Q100 Grade 1, wettable flank, SCP, OCP, OTP, and UVLO protection operating temperature range: -40°C to +125°C, trimmable output
	RPX-1.0	1	4-36	0.8-30	QFN	3.0 x 5.0 x 1.6 mm (0.1" x 0.2" x 0.06")	N/A	SCP, OCP, OTP, and UVLO protection operating temperature range: -40°C to +125°C trimmable output
	RPX-1.5	1.5	4-36	0.8-30	QFN	3.0 x 5.0 x 1.6 mm (0.1" x 0.2" x 0.06")	N/A	SCP, OCP, OTP, and UVLO protection operating temperature range: -40°C to +125°C trimmable output
 	RPX-1.5Q	1.5	4-36	0.8-30	QFN	3.0 x 5.0 x 1.6 mm (0.1" x 0.2" x 0.06")	N/A	AEC-Q100 Grade 1, wettable flank, SCP, OCP, OTP, and UVLO protection, operating temperature range: -40°C to +125°, trimmable output
 	RPY-1.5Q	0-1.5	4-36	0.8-34.8	QFN	3.0 x 5.0 x 1.6 mm (0.1" x 0.2" x 0.06")	N/A	AEC-Q100 Grade 1, wettable flank, constant current module with integrated shielded inductor, 1.5A output with 0-100% PWM dimming, enable, fault thermal shutdown, and soft-start functions
	RPMB-2.0	2	4-36	3.3, 5, 12, 15 trimmable 1-24V	LGA-25	12.19 x 12.19 x 3.75 mm (0.5" x 0.5" x 0.2")	N/A	Operating temperature range: -40°C to +100°C with derating, convection cooled adjustable output up to 24V
	RPX-2.5	2.5	4.5-28	1.2-6	QFN	4.5 x 4.0 x 2.0 mm (0.2" x 0.1" x 0.07")	N/A	Very high power density with SCP, OCP, OTP, OVP, and UVLO protection efficiency up to 91% trimmable output

SWITCHING REGULATORS

POWER MODULES

- Advanced 3D Power Packaging
- No heatsink required
- Compact SMD footprint

- 0.5 to 20A
- Wide operating temperature range
- Trimmable outputs

- High efficiency up to 99%
- Short circuit protection
- Fully-automated production

Series	Output current (A)	Vin (VDC)	Vout (VDC)	Case / Dimensions (LxWxH)	Certifications	Other features
 RPMB-3.0	3	4-36	3.3, 5, 12, 15 trimmable 1-24V	LGA-25 12.19 x 12.19 x 3.75 mm (0.5" x 0.5" x 0.2")	N/A	Operating temperature range: -40°C to +100°C with derating, convection cooled adjustable output up to 24V
 RPX-4.0	4	3.8-36	1-7	QFN 5.0 x 5.5 x 4.0 mm (0.2" x 0.2" x 0.2")	N/A	Very high power density excellent thermal performance power good, enable, and trimmable output
HIGH VOLTAGE BUCK						
 RPMH-0.5	0.5	4.3-65	3.3, 5, 12, 15, 24	LGA-25 12.19 x 12.19 x 3.75 mm (0.5" x 0.5" x 0.2")	N/A	Wide input range, operating temperature range: -40°C to +95°C at full load on/off, sense, trim, power good, and sequencing functions
 RPMH-1.5	1.5	5-60	3.3, 5, 12, 15, 24	LGA-25 12.19 x 12.19 x 3.75 mm (0.5" x 0.5" x 0.2")	N/A	Wide input voltage range operating temperature range: -40°C to +100°C at full load
new  RPH-3.0	3	4.5-55	1-15	QFN 10.0 x 12.0 x 4.0 mm (0.39" x 0.47" x 0.16")	N/A	SCP, OCP, OVP, and UVLO efficiency up to 91% operating temperature range: -40°C to +125°C (with derating)

SWITCHING REGULATORS

BOOST / BUCK-BOOST

- Standard Pinout
- MTBF up to 21 million hours
- Short circuit protection
- High efficiency up to 99%
- Internal SMD construction
- Wide operating temperature range
- No heatsink required
- RoHS compliant
- REACH compliant
- Ultra high specification

Series	Output current (A)	Vin (VDC)	Vout (VDC)	Case / Dimensions (LxWxH)	Certifications	Other features
BOOST						
 R-78S-0.1	0.1	0.65-3.3	1.8, 3.3, 3.6	SIP4 11.6 x 8.5 x 10.4 mm (0.5" x 0.3" x 0.4")	IEC/EN62368-1	Designed to power microprocessors and IoT operating temperature range: -40°C to +100°C boost converter to run from single cell batteries
BUCK-BOOST						
 RBB10-2.0	4	2.3-5.5	1-5.5	LGA-25 12.19 x 12.19 x 3.75 mm (0.5" x 0.5" x 0.2")	N/A	7µA standby power consumption SCP, OTP, OCP dual regulation modes for optimized performance or efficiency
 RBBA3000	50	9-60	0-60	1/2 brick 60.6 x 63.2 x 13.0 mm (2.4" x 2.5" x 0.5")	EN/IEC62368-1	Adjustable output voltage and current efficiency up to 96% operating temperature range: -40°C to +85°C without derating

LED DRIVERS

AC/DC CONSTANT CURRENT

- 3 to 25 watts
- Constant current or constant voltage available

- High efficiency
- Ultra-low profile packages
- Modified standards available

- Dimmable series available

Series	Power (W)	Output current (mA)	Vin (VAC)	Vout (VDC)	Isolation	Dimensions (LxWxH)	Certifications	Other features
 RACD03	3	350 500 700	90-264 90-132	2.5-15 (3-12) 2.5-11 (3-9.5) 2.5-6 (3-4.5)	3.75 kVAC / 1 min	52.1 x 29.6 x 23.1 mm (2.1" x 1.2" x 0.9")	UL8750 EN/IEC61347-1, 2-13	IP66, CC/CV wired connections compact size
 RACD06	6	350 500 700	90-264	2.5-24 2.5-15 2.5-12	3.75 kVAC / 1 min	68.0 x 35.0 x 21.0 mm (2.7" x 1.4" x 0.8")	UL8750 EN/IEC/J61347-1, 2-13	CC/CV compact size screw terminals
 RACD06-LP	6	350 500 700	198-264	2-18 2-12 2-9	3.75 kVAC / 1 min	98.0 x 46.0 x 11.0 mm (3.9" x 1.8" x 0.4")	EN/IEC61347-1 EN/IEC61347-2-13 EN/IEC62384	Ultra-low profile economical design screw terminals
 RACD07	7	250 350 500 700	90-295	14-28 10-20 5-14.5 3-10.5	3.75 kVAC / 1 min	57.0 x 40.8 x 24.0 mm (2.2" x 1.6" x 0.9")	UL8750 EN61347-1 EN61347-2-13 EN61547	IP67 wired connections compact size
 RACD12-LP	12	350 500 700	198-264	2-37 2-24 2-19	3.75 kVAC / 1 min	128.0 x 50.0 x 13.0 mm (5.0" x 2.0" x 0.5")	EN/IEC61347-1 EN/IEC61347-2-13 EN/IEC62384	Ultra-low profile economical design screw terminals fully protected (OLP, SCP, OCP, OTP)
 RACD20-LP	20	350 500 700	198-264	2-59 2-40 2-31	3.75 kVAC / 1 min	128.0 x 50.0 x 13.0 mm (5.0" x 2.0" x 0.5")	EN/IEC61347-1 EN/IEC61347-2-13 EN/IEC62384	Ultra-low profile economical design screw terminals fully protected (OLP, SCP, OCP, OTP)
 RACT25	25	500 700 1050	198-264	25-50 18-36 12-24	3.75 kVAC / 1 min	120.0 x 45.0 x 28.0 mm (4.7" x 1.8" x 1.1")	EN/IEC61347-1 EN/IEC61347-2-13 EN61547 EN62493 EN55015	dimmable with leading or trailing edge dimmers class II with SELV output (no earth required)

LED DRIVERS

DC/DC CONSTANT CURRENT

- All-in-one
- Ready to use (no external components necessary for basic use)
- High efficiency up to 97%
- PWM / digital and analog dimming
- Wide input voltage range
- Buck & buck-boost topology
- Optional flying wires (/W)
- Low emissions (built-in EMC filter)
- Short circuit protected
- Modified standards available

Series	Output current (A)	Vin (VDC)	Vout (VDC)	Case / Dimensions (LxWxH)	Certifications	Other features
 RCD-24 (/W)	0.3-1.2	4.5-36	2-35	DIP 22.1 x 12.55 x 8.5 mm (0.9" x 0.5" x 0.3")	EN/UL60950-1 EN61373 EN50121-3-2	Buck topology IP67 rated wired version available (/W) Vref out (/Vref) digital PWM and analog voltage dimming
 RCD-24/PL	0.3-1.0	4.5-36	2-35	SMD 31.0 x 11.4 x 6.6 mm (1.2" x 0.5" x 0.3")	EN/UL60950-1 EN61373 EN50121-3-2 EN55022	Buck topology low profile, class B filter built-in tape & reel packaging (-R)
 RCD-48 (/W)	0.35-1.2	9-60	2-56	DIP 32.6 x 16.7 x 11.1 mm (1.3" x 0.7" x 0.4") 32.6 x 16.0 x 11.2 mm (/M) (1.3" x 0.7" x 0.4")	EN/UL60950-1 EN61373 EN50121-3-2	Buck topology wired version with Vref out available (/W) IP67 rated for wired version (/W) metal case (/M)
 RCDE-48	0.35-1.05	6-60	3-52	DIP24 32.1 x 20.6 x 12.3 mm (1.2" x 0.8" x 0.5")	EN55015	Buck topology constant current output (350, 700, or 1050mA) digital PWM and analog voltage dimming high efficiency up to 97%

LED DRIVERS

ACCESSORIES

Series	Operating principle	Power (W)	Input Voltage (VAC)	Other features
 RELI-DA01/R	DALI-to-PWM/analog control signal interface	1.6	90-290	DALI IEC62386, PWM / 0-10V output compatible with all RECOM dimmable drivers spring terminals
 RELV4-16	DALI Bus power supply	3.2	90-264	Designed to power the DALI bus DALI compliant screw terminals

POWER CONTROL SYSTEMS – CUSTOM SOLUTIONS

RECOM's subsidiary company Power Control Systems (PCS) specializes in custom power converter solutions and has over 40 years of experience with **high reliability/harsh environment applications**. Its design and manufacturing is in Europe with close local technical and sales support. Products developed include: high power DC input and single/three-phase AC input converters, cascadable up to 30kW, battery chargers and balancers up to 11kW, suitable for a range of battery voltages up to 110VDC and above, bi-directional power supplies and modular inverters with single/three-phase outputs. All AC input products incorporate active power factor correction, and modular PFC 'front ends' are available up to 4kW with universal single and three-phase AC inputs.



Special products **for rugged vehicle solutions in the marine, avionics, and defence sectors** have also been developed up to 4kW rating, with single or multiple outputs, high levels of functionality, robustness, and environmental protection. PCS has extensive expertise in standards compliance in high reliability markets and can provide certification of products to functional, safety, and **EMC standards for the industrial, rail, transportation, medical, and defence markets**. Although most products are bespoke (customized), PCS uses a variety of proven platform designs as a basis for new projects, to minimize costs, risk, and turn-round time. Customers are invited to browse the featured products as examples of PCS capability and to contact the company with your particular requirements.

CUSTOM SOLUTIONS

30kW BATTERY CHARGERS |
INVERTERS | PFC FRONT ENDS |

- High power solutions for DC or AC line with DC, 1AC, or 3AC
- Wide operating temperature range
- Bidirectional power supplies up to 11kW with 3AC input and active PFC
- Inverters up to 5kW
- Special applications & rugged vehicle solutions up to 4kW
- Battery charging & battery balancing up to 30kW
- OCP, OTP, OVP, and SCP

Series	Power (W)	Vin	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Comply with	Other features
 MD200	220	28VDC	5V / 2 x 12VDC	1500VDC	184.4 x 167.0 x 40.6 mm (7.2" x 6.5" x 1.6")	MIL-STD-704A MIL-STD-810F DEF-STAN 59-41 DO-160E/ED14E BS.2011, IPC-A-610D MIL-HDBK-217F EN62368-1	Plug & play DC/DC converter for special applications, robust, high reliability, multiple output, contact cooling IP 40 for ambient protection
 ID250	240	24 - 48 - 72 - 110VDC	48VDC: 50-156VAC 24-72-110VDC: 200-240VAC	3500VAC	289.0 x 128.0 x 100.0 mm (11.4" x 5.0" x 3.9")	EN50155 EN50121-4, -3-2 EN50124-1, EN50125-3 EN61373 (1B) EN62368-1 IS402, CE	Railway inverter power for passenger socket or for driver desks fully railway-approved reliable AC-power
 SD280	280	28VDC	Multiple output DC	N/A	250.0 x 130.0 x 100.0 mm (9.8" x 5.1" x 3.9")	N/A	High functionality converter, power supply with integrated functional interfaces compact design for critical ambient conditions excellent EMC behavior
 PFC800	800	230V1AC	365VDC	N/A	186.0 x 80.0 x 43.6 mm (7.3" x 3.1" x 1.7")	EN61000-6-2 EN61000-6-4 EN61000-3-2/A14 EN62368-1 CE	Modular power factor correction mobile or stationary use excellent performance compact design, high efficiency

CUSTOM SOLUTIONS

- High power solutions for DC or AC line with DC, 1AC, or 3AC
- Bidirectional power supplies up to 11kW with 3AC input and active PFC
- Special applications & rugged vehicle solutions up to 4kW
- OCP, OTP, OVP, and SCP
- Wide operating temperature range
- Inverters up to 5kW
- Battery charging & battery balancing up to 30kW

30kW BATTERY CHARGERS | INVERTERS | PFC FRONT ENDS

Series	Power (W)	Vin	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Comply with	Other features
 IPS1200	1200	48VDC±10% 24V or 48VDC	115V 3AC	1500VAC	250.0 x 149.9 x 96.7 mm (9.8" x 5.9" x 3.8")	MIL-STD-461F (Cat. Submarine) AECTP-400 (Edt.3) Method 403 AECTP-400 (Edt.3) Method 401 MIL-STD-810F 807.4, CE	Navi/marine inverter base plate cooling high efficiency, compact design robust, high reliability
 PFC1600	1600	230V 1AC	360	N/A	186.0 x 158.0 x 44.0 mm (7.3" x 6.2" x 1.7")	EN61000-6-2 EN61000-6-4 EN61000-3-2/A14 EN62368-1 CE	Modular power factor correction mobile or stationary use excellent performance compact design, high efficiency
 MA2000	1400-2000	90-264VAC 3-120VDC	12 2-80	1750VAC	318.0 x 212.0 x 165.0 mm (12.5" x 8.3" x 6.4")	EN61000-6-1, -6-3 EN62368-1 EN61010 EN60068-2-6 EN61326 class B CE	Battery conditioner for e-mobility production automotion digital regulation concept high functionality
 PFC3200	3200	230V 1AC	365	N/A	199.0 x 186.0 x XX.0 mm (7.8" x 7.3" x XX.0")	EN61000-6-2 EN61000-6-4 EN61000-3-2/A14 EN62368-1 CE	Modular power factor correction mobile or stationary use, excellent performance compact design, high efficiency easy to integrate
 RMOC(D) 3200	3200	400V 3AC or 700VDC	24-110	1500VAC	410.0 x 235.0 x 85.0 mm (16.1" x 9.2" x 3.3")	EN62368-1 EN61000-6-2, -6-4 EN50155, EN50121-3-2 EN61373 1B EN50124-1, EN50153 EN45545-2	Battery charger for mobile applications railway-approved according to EN50155 robust and compact design interface for data communication
 PFC4000	4000	230-480V 3AC	360	N/A	Platform design	EN61000-6-2 EN61000-6-4 EN62368-1 CE	Modular power factor correction mobile or stationary use excellent performance compact design, high efficiency
 RMOC4000	4000	115VAC 400V 3AC	24, 48 24, 48, 60	>200MW with 500VDC	617.0 x 483.0 x 132.0 mm (24.3" x 19.0" x 5.2")	STANAG 1008 EN62638-1 CE101 RE101 RE102 (Navy Fixed) CS101	Robust, compact design high efficiency industry AC power supply for 700VDC version see SD4000
 SD4000	4000	320/450 600VDC	24, 48	1500VAC	483.5 x 370.0 x 132.0 mm (19.0" x 14.5" x 5.2")	EN62368-1 EN61000-6-2 EN61000-6-4 CE	Converter for high level DC-input traction battery 320VDC / 450VDC / 600VDC high efficiency robust, compact design

CUSTOM SOLUTIONS

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- Bidirectional power supplies up to 11kW with 3AC input and active PFC
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- OCP, OTP, OVP, and SCP
- Wide operating temperature range
- Inverters up to 5kW
- Battery charging & battery balancing up to 30kW

30kW BATTERY CHARGERS | INVERTERS | PFC FRONT ENDS

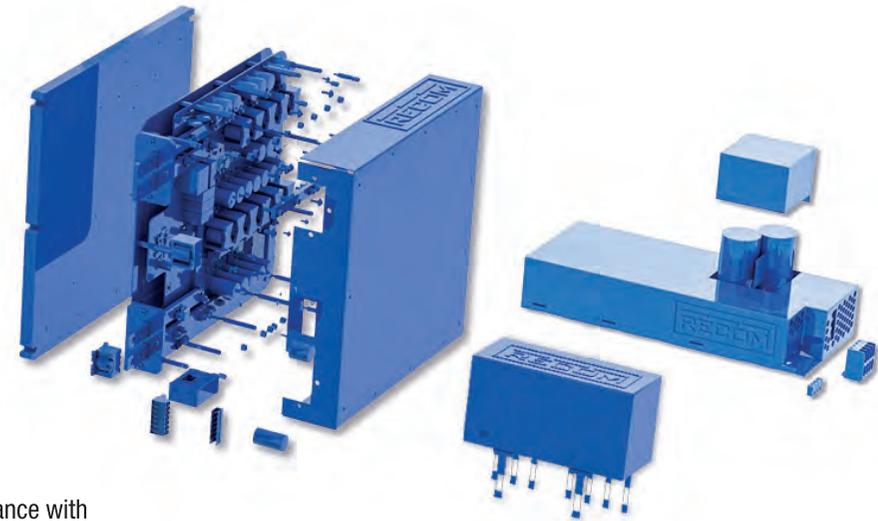
Series	Power (W)	Vin	Vout (VDC)	Isolation	Case / Dimensions (LxWxH)	Comply with	Other features
 RMOC5000	5000	360-440V 3AC	39.5-58	4 kVAC	526.0 x 483.0 x 88.0 mm (20.7" x 19.0" x 3.5")	EN62368-1 EN50125-3 EN50129 EN50124-1/A1/A2 EN50121-3-2, -4 EN50155, EN45545-2	5kw battery charger for mobile use railway-approved concept 3Ph-AC input with active PFC output for 24V up to 110V battery
 SAB10000	10000	340-470V 3AC 520-700VDC	20 24	1500VAC	670.0 x 443.0 x 128.0 mm (26.4" x 197.4" x 5.0")	EN62368-1 EN61000-6-4, -3-2 EN61000-4-2, -4-3 EN61000-4-4, -4-5 EN61000-4-6, -4-8 EN61000-4-11	Bidirectional battery balancer for e-mobility production automation digital regulation concept high functionality
 MA11000	11000	180-480V 3AC	24, 48	1500VAC	503.0 x 430.0 x 141.0 mm (19.8" x 16.9" x 5.5")	EN61000-6-3 EN61000-6-1 EN62368-1, EN61010 EN60068-2-6 EN61326 class B CE	Battery conditioner for e-mobility production automation digital regulation concept high functionality

POWER PRODUCTS DESIGNED TO FIT YOUR SPECIFICATIONS

RECOM is renowned for an exceptionally wide range of cost-effective standard products available globally. Additionally, we invite inquiries for full or semi-custom designs made to fit your specifications. All power levels can be considered, right from sub-1W to kilowatts for any application – industrial, medical, energy, aerospace, rail, or military COTS. Customizable product types include AC/DCs, DC/DCs, battery chargers/conditioners, inverters, PFC front ends, and much more. Your special requirement may also be met by modifying a standard product while retaining its existing safety certification, providing you with a very economical, simple, and quick solution. In the past, RECOM has modified many standard production parts as per particular customer specifications; we might hence already have the part you need in our design library.

RECOM has design teams in Austria, Italy, China Mainland, and Taiwan area, who design with the latest technologies, using state-of-the-art CAD tools for circuit emulation and thermal simulation. In-house EMC test facilities can confirm compliance with international standards and our experienced R&D engineers ensure that the designs fully meet the application requirements. Third-party safety agency and EMC certificates can be arranged for any custom design.

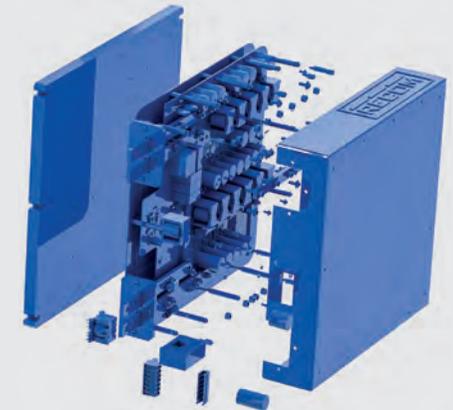
RECOM recommends that you discuss your power converter requirements with us before drawing up a final specification. This will ensure that the proposed product can be made most cost-effectively and designed, built, and certified in the fastest timescale. For example, matching a new design BoM to the RECOM manufacturing technology database will enable the use of common components that are always kept in stock, resulting in the most economical custom product.



FULL CUSTOMIZE

- Built to your specification
- From concept to production
- Any shape, size or color
- Meets safety & EMC standards

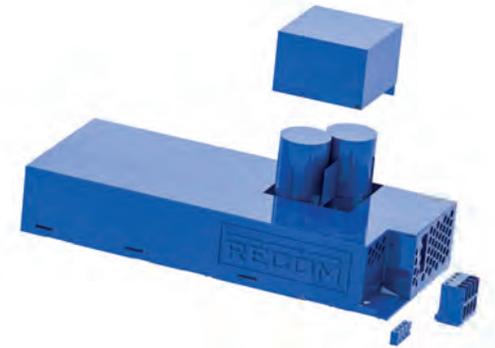
Full customs can be designed from sub-1W to kilowatts by our engineering teams in Austria, Italy, Taiwan, and China, depending on the individual specification. RECOM's subsidiary company PCS in Italy has particular expertise in custom high-power single- and three-phase AC/DCs, DC/DCs, battery chargers/conditioners, PFC front ends, and inverters. These can be designed for any particular market — industrial, medical, energy, aerospace, rail, and military COTS. State-of-the-art design techniques are used for high power density and high efficiency, with the lowest cost. Safety certification can be arranged to meet all the common standards. EMC compliance can also be realized with the pre-compliance testing performed using our in-house test chambers, and we can arrange for a third-party EMC certification.



SEMI CUSTOM

- Based on proven designs
- Accelerate time-to-market
- Lower cost than a full custom
- Uses existing infrastructure

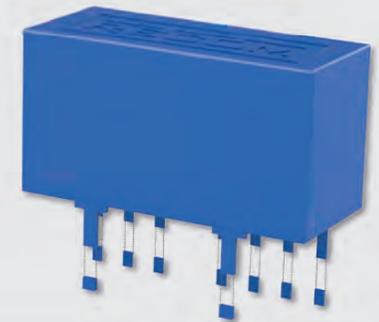
Often, a customer specification can be met using an existing 'platform' design that has the advantage of proven performance and reliability in the field. This is a more economical approach than a full custom, and product safety assurance and EMC certification are simplified, reducing the risk and accelerating the time to the market. Existing in-house stock components, tooling, and manufacturing processes may be used, resulting in a cost-effective product.



MODIFIED STANDARD

- Standard designs, fine tuned
- Certifications remain valid
- Lowest cost and fastest TTM
- Uses existing supply chain

Do you sometimes look at a datasheet and think, 'If only this one specification were changed, it would be ideal'? RECOM and PCS have a large range of standard products that can often be easily modified to accommodate simple customer requests, such as a change to the output voltage, pinout, or encapsulation material. In many cases, existing certifications for safety and EMC remain valid, saving significant costs and time. RECOM has manufactured many 'modified standards' in the past; so, we might already have met your particular requirements.





recom-power.com/vrtour

RECOM POWER WORLDWIDE

EMEA

RECOM Power GmbH
RECOM Engineering GmbH & Co KG
Münzfeld 35
4810 Gmunden
AUSTRIA
Phone: +43 7612 88325 700
info@recom-power.com
sales.at@recom-power.com

RECOM Electronic GmbH & Co. KG
Carl-Ulrich-Straße 4
63263 Neu-Isenburg
GERMANY
Phone: +49 6102 88381-0
info@recom-power.com

RECOM Engineering GmbH & Co KG
Rennweg 33B / Ungargasse 66
1030 Vienna
AUSTRIA
info@recom-power.com

APAC

RECOM Asia Pte. Ltd.
22 Jalan Kilang,
#06-01 Mova Building
Singapore 159419
Phone: +65 6276 8795
enquiry@recom-power.com

RECOM Asia Pte. Ltd.
(Shanghai Representative Office)
A8411, No.808, HongQiao Road
Shanghai, CHINA 200030
Phone: +86 (21) 6448 1989/1990
enquiry@recom-power.com

RECOM Power Japan K.K.
Shinjuku Park Tower N30th Floor
3-7-1 Nishi-Shinjuku Shinjuku-ku
Tokyo 163-1030 JAPAN
Phone: +81 (3) 5326 3047
recomjapan@recom-power.com

RECOM Power (Thailand) Co., Ltd.
101 True Digital Park East,
Pegasus Building, 5FL, Unit 504,
Sukhumvit Rd, Bangchak, Prakanong,
Bangkok 10260

AMERICAS

RECOM Power, Inc.
3475 Ringsby Court Suite #426
Denver, CO 80216
Phone: +1-720-216-0255
Fax: +1-720-465-7048
admin@recom-power.com
techsupportamericas@recom-power.com


RECOM
www.recom-power.com

