



**DC/DC CONVERTERS
AC/DC MODULES
SWITCHING REGULATORS
LED DRIVERS**

PRODUCT SELECTION GUIDE

WE POWER YOUR PRODUCTS

RECOM

Innovation. Quality. Perfection.

At RECOM, that's what we live for.



Innovative technology

If we have become a particularly innovative power supply vendor over the years, it is because our customers are satisfied with nothing less than the best. For in the end, our development team lives and breathes to meet the needs of our customers. Since our first DC/DC converter came off the production line some two decades ago, not a year has gone by without us launching a new innovation.



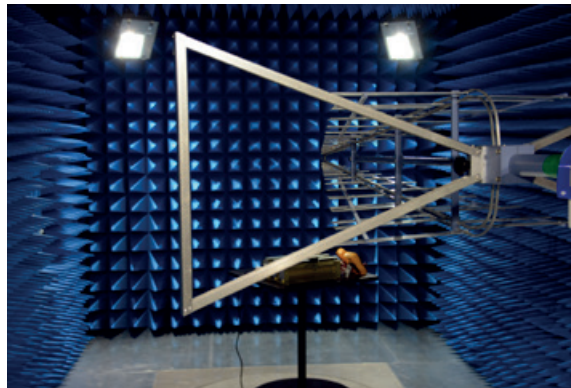
We stand behind our products

RECOM understands the importance of reliability in your critical applications. That is why we are proud to feature 5 year warranty on most of our Lightline LED drivers, 3 year warranty on our DC/DC converters, AC/DC converters, and switching regulators as well as a 7 year warranty on our DIN rail modules. In serving the industrial controls, lighting, aerospace, medical, and military markets, understanding their needs is paramount to our continued success.



Our goal: ZERO defects

Our products and processes meet the highest international standards and have been given the thumbs-up by some of the world's leading certification organizations. But for us that is just the beginning – because we aim for zero defects. As quixotic though this quest may be, we still do our best to achieve it. And this applies not only to the manufacturing and quality control phases, but also to our product development processes. All our designs go through extensive testing before they are finally released to the market to guarantee the highest quality: Highly Accelerated Lifetime Test (HALT), temperature testing, humidity testing, EMC testing, X-Ray testing and more.



Certified sites: ISO-9001

The quality standards of our manufacturing and logistics sites are ISO-9001 certified to guarantee the highest level of control and quality for customer satisfaction.



Certified products: CE, EN, UL, CSA, ENEC, PSE, RCM





























RECOM products offer safety certifications including CE, EN, UL, CSA, ENEC, PSE and RCM marks to meet the customer's requirements for safety around the World.



DC/DC CONVERTERS

UNREGULATED





























- Industry standard pinout
- Isolation voltages up to 8kVDC
- Current limit protected
- Custom design available
- Certified to EN60950-1
- 3rd ed. medical approvals (60601-1)
- High efficiency
- 0.25 Watts up to 2 Watts
- Optional continuous short circuit protection
- RoHS and REACH compliant
- 3 year warranty

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation (kVDC)	Certification	Case	Other Features
 R0.25S/R0.25D/ R0.25DA	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	EN  	SMD	Very low power, isolated dual outputs (A), operating temperature to 100°C, high efficiency (/E)
 RM	0.25	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15	1 or 2	EN  	SIP4	Very low power, high efficiency (/E)
 R0.5S/R0.5D	0.5	3.3, 5, 12, 24	5, 12, 15, ±5, ±12, ±15	1 or 3	EN 	SMD	Low power, operating temperature to 100°C
 ROL	0.5	5, 12	5, 12, 15	1 or 2	EN  	SIP4	Low power
 RAM	1	5, 12, 24	5	3 or 4	EN  	SMD	Open frame, operating temperature to 100°C
 R1S/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	EN  	SMD	Operating temperature to 100°C, high efficiency (/E)
 R1DA	1	3.3, 5, 9, 12, 15, 24	3.3/3.3, 5/5, 9/9, 12/12, 15/15	1	EN  	SMD	Operating temperature to 100°C, isolated dual outputs
 R0	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24	1 or 2	EN   	SIP4	Small footprint, high efficiency (/E)
 ROM	1	3.3, 5, 12	5, 12, 15	3	EN   	SIP4-Micro	Very low profile

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Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation (kVDC)	Certification	Case	Other Features
 RNM	1	3.3, 5, 12, 15	3.3, 5, 9, 12, 15	1 or 2	EN 	DIP6	Micro size
 RB	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±3.3, ±5, ±9, ±12, ±15, ±24	1 or 2	EN   	SIP7	Industry standard, high efficiency (/E)
 RE	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24	1 or 2	EN   	SIP7	Industry Standard
 RBM	1	5, 12	5, 12, 15, ±5, ±12, ±15	3	EN   	SIP6-Micro	Very low profile
 RK RH	1	5, 12, 15, 24	5, 9, 12, 15, ±5, ±9, ±12, ±15	3 or 4	EN  	SIP7	High isolation
 RP	1	5, 9, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±3.3, ±5, ±9, ±12, ±15, ±24	5.2	EN  	SIP7	Very high isolation
 RxxPxx(/R)	1	5, 9, 12, 15, 24	3.3, 5, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15	6.4 or 8	EN   	SIP7	Reinforced isolation, (/R6.4 & /R8) with a triple insulated transformer
 RU/RUM	1	3.3, 5	5/5	1 or 2	EN 	SIP7/ SIP6-Micro	Isolated dual outputs
 RN	1.25	3.3, 5, 9, 12, 15, 24	3.3, 5, 7, 9, 12, 15, 24	1 or 2	EN 	DIP8	Low profile

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Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation (kVDC)	Certification	Case	Other Features
 RTM	2	5, 12, 24	5	2 or 3	EN 	SMD	Open frame, operating temperature to 90°C
 R2S/R2D	2	5, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±5, ±9, ±12, ±15, ±24	1 or 3	EN  	SMD	Operating temperature to 100°C
 RI	2	5, 12, 15, 24	5, 12, 15	1	EN 	SIP4	Small footprint
 RD	2	5, 12, 24	±5, ±12, ±15, ±24	1 or 2	EN 	SIP7	Industry standard
 RKZ	2	5, 12, 24	5, 12, 15, ±5, ±12, ±15	3 or 4	EN  	SIP7	High isolation
 RxxP2xx (/R)	2	5, 12, 15, 24	3.3, 5, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15	6.4 or 8	EN   CSA	SIP7	Reinforced isolation, (/R6.4 & /R8) with a triple insulated transformer
 RUZ	2	5	5/5	1 or 2	EN 	SIP7	Isolated dual outputs
 RJZ/RGZ	2	3.3, 5, 9, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±3.3, ±5, ±9, ±12, ±15, ±24	3 or 4	EN  	DIP14	High isolation
 RV (/R)	2	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15, 24, ±3.3, ±5, ±9, ±12, ±15, ±24	6, 6.4 or 8	EN   CSA	DIP24-Micro	Reinforced Isolation (/R6.4 & /R8) with a triple insulated transformer

DC/DC CONVERTERS

REGULATED




























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- Current limit protected
- Short circuit protected
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- High efficiency
- 0.5 Watts up to 15 Watts
- RoHS and REACH compliant
- 3 year warranty

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation (kVDC)	Certification	Case	Other Features
 R0.5Z	0.5	5, 12, 15, 24	5, 12, 15	1 or 2	EN  	SMD	Low power SMD, built-in class A filter, optional short circuit protection (/P)
 RAZ	1	5, 12, 24	5	1 or 2	EN  	SMD	Open frame, regulated output
 R1Z	1	3.3, 5, 12, 15, 24	3.3, 5, 9, 12, 15	1 or 2	EN  	SMD	Built-in class A filter, optional short circuit protection (/P)
 RY	1	5, 9, 12, 15, 24	5, 9, 12, 15, 24 ±5, ±9, ±12, ±15, ±24	1	EN 	SIP7	Control pin (on/off and adjustable output), optional short circuit protection (/P)
 RS0	1	4.5-9, 9-18, 18-36, 36-72, 4.5-18, 9-36, 18-72	3.3, 5, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15	1, 2 or 3	EN  	SIP8	Wide input range, control pin (on/off)
 RS	2	4.5-9, 9-18, 18-36, 36-72, 9-36, 18-72	3.3, 5, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15	1, 2 or 3	EN  	SIP8	Wide input range, control pin (on/off)
 RW2	2	4.5-9, 9-18, 18-36, 36-72	3.3, 5, 12, 15, ±5, ±9, ±12, ±15	1, 2 or 3	EN  	DIP16/SMD	Compact size
 RS3	3	4.5-9, 9-18, 18-36, 36-72, 9-27, 20-60	3.3, 5, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15	1, 2 or 3	EN  	SIP8	Wide input range, high power density, control pin (on/off)
 RW-S RW-D	3	4.5-9, 9-18, 18-36, 36-72	3.3, 5, 9, 12, 15, ±3.3, ±5, ±9, ±12, ±15	1 3	EN  	DIP24/SMD	Low profile

DC/DC CONVERTERS

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- High efficiency
- 0.5 Watts up to 15 Watts
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Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation (kVDC)	Certification	Case	Other Features
 REC3	3	4.5-9, 9-18, 18-36, 36-72, 9-36, 18-72	3.3, 5, 9, 12, 15, ±5, ±12, ±15	2, 4 or 6	EN  	DIP24/SMD	Industry standard, multiple pinouts available
new  REM3	3	4.5-9, 9-18, 18-36, 36-75, 9-36, 18-75	3.3, 5, 12, 15, 24, ±5, ±12, ±15	5kVAC/1min	EN  	DIP24	Reinforced isolation for 250VAC working voltage, 2µA patient leakage current, 2MOPP for patient safety
 REC3.5	3.5	4.5-9, 9-18, 18-36, 36-75	5, 9, 12, 15, 24, ±5, ±9, ±12, ±15	8 or 10	EN   	DIP24	Reinforced isolation (/R8 & /R10) with a triple insulated transformer
 REC5	5	4.5-9, 9-18, 18-36, 36-72, 9-36, 18-72	3.3, 5, 9, 12, 15, ±5, ±9, ±12, ±15	2, 4 or 6	EN  	DIP24/SMD	Industry standard, multiple pinouts available
 REC6	6	4.5-9, 9-18, 18-36, 36-75	5, 9, 12, 15, 24, ±5, ±9, ±12, ±15	8 or 10	EN   	DIP24	Reinforced isolation (/R8 & /R10) with a triple insulated transformer
new  REM6	6	4.5-9, 9-18, 18-36, 36-75, 9-36, 18-75	3.3, 5, 12, 15, 24, ±5, ±12, ±15	5kVAC/1min	EN  	DIP24	Reinforced isolation for 250VAC working voltage, 2µA patient leakage current, 2MOPP for patient safety
 REC8	8	4.5-9, 9-18, 18-36, 36-75, 9-36, 18-75	3.3, 5, 12, 15, ±5, ±12, ±15	2 or 3	EN   	DIP24/SMD	Industry standard
 REC10	10	9-18, 18-36, 36-75, 9-36, 18-75	3.3, 5, 12, 15, ±5, ±12, ±15	2 or 3	EN  	DIP24/SMD	Industry standard

DC/DC Converters

REGULATED

- Industry standard pinout
- Isolation voltages up to 10kVDC
- Current limit protected
- Short circuit protected
- Custom design available
- Certified to EN60950-1
- 3rd ed. medical approvals (60601-1)
- High efficiency
- 0.5 Watts up to 15 Watts
- RoHS and REACH compliant
- 3 year warranty















Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation (kVDC)	Certification	Case	Other Features
 REC10/M	10	9-18, 18-36, 36-75, 9-36, 18-75	3.3, 5, 12, 15, ±5, ±12, ±15	2 or 3	EN   	50.8 x 25.4 x 10.2mm (2"x1"x0.4")	Industry standard
 REM10	10	4.5-9, 9-18, 18-36, 36-75, 9-36, 18-75	3.3, 5, 12, 15, 24, ±5, ±12, ±15	5kVAC/1min	EN  	DIP24	Reinforced isolation for 250VAC working voltage, 2µA patient leakage current, 2MOPP for patient safety
 REC15/M	15	9-18, 18-36, 36-75, 9-36, 18-75	3.4, 5.1, 12, 15, ±5, ±12, ±15	2 or 3	EN   	50.8 x 25.4 x 10.2mm (2"x1"x0.4")	Industry standard

new

DC/DC CONVERTERS

REGULATED







- Six-sided shielding
- International safety standard approvals
- Flexible customization
- Regulated outputs
- High density packages
- Short circuit protection with autorecovery
- Single, dual and multiple outputs
- Up to 30 Watts
- Optional heatsinks and filter chokes available
- RoHS and REACH compliant
- 4:1 input voltage available (W)
- 3 year warranty

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation (kVDC)	Certification	Case	Other Features
 RP08-A(W)	8	9-18, 18-36, 36-75, 9-40, 18-75, 43-160	3.3, 5, 12, 15, ±5, ±12, ±15	1.6		DIP24/SMD	Industry standard, extended input voltage range (43-160Vin)
 RP10-E(W)	10	9-18, 18-36, 36-75, 9-36, 18-75	5, 12, 15, ±5, ±12, ±15	1.6		50.8 x 25.4 x 10.2mm (2" x 1" x 0.4")	Industry standard
 RP12-A(W)	12	9-18, 18-36, 36-75, 9-36, 18-75	3.3, 5, 12, 15, ±5, ±12, ±15	1.6		SMD 31.8 x 20.3 x 10.2mm (1.3" x 0.8" x 0.4")	Micro size, CTRL pin & trim pin
 RP15-OF(W)	15	18-36, 36-75, 9-36, 18-75	3.3, 5, 12, 15	2.25		SMD 27.9 x 23.9 x 8.5mm (1.1" x 0.94" x 0.33")	Open frame, low profile, (planar transformer), CTRL pin & trim pin
 RP15-A(W)	15	9-18, 18-36, 36-75, 9-36, 18-75	3.3, 5, 12, 15, ±5, ±12, ±15	1.6		25.4 x 25.4 x 9.9mm (1" x 1" x 0.39")	Micro size, CTRL pin & trim pin
 RP20-A(W)	20	9-18, 18-36, 36-75, 9-36, 18-75	3.3, 5, 12, 15, ±12, ±15	1.6		25.4 x 25.4 x 9.9mm (1" x 1" x 0.39")	Micro size, CTRL pin & trim pin
 RP30-F(W)	30	9-18, 18-36, 36-75, 9-36, 18-75	3.3, 5, 12, 15, ±5, ±12, ±15	1.6		50.8 x 25.4 x 10.2mm (2" x 1" x 0.4")	CTRL pin & trim pin

DC/DC CONVERTERS

REGULATED





- Six-sided shielding
- International safety standard approvals
- Flexible customization
- Regulated outputs
- High density packages
- Short circuit protection with autorecovery
- Single, dual and multiple outputs
- Up to 60 Watts
- Optional heatsinks and filter chokes available
- RoHS and REACH compliant
- 4:1 input voltage available (W)
- 3 year warranty

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation (kVDC)	Certification	Case	Other Features
 RP40-G(W)	40	9-18, 18-36, 36-75, 9-36, 18-75	3.3, 5, 12, 15, ±12, ±15 5/±12, 5/±15	1.6		50.8 x 50.8 x 10.2mm 51.3 x 51.3 x 10.2mm (2" x 2" x 0.4")	Auto sense, CTRL pin & trim pin
 RP60-G	60	18-36, 36-75	3.3, 5, 12, 15	1.6		50.8 x 50.8 x 10.2mm (2" x 2" x 0.4")	Auto sense, CTRL pin & trim pin
 Power Modules RPM(D)	15-60	9.5-36, 18-36, 36-75, 10-40, 18-75	3.3, 5, 12, 15, ±5, ±12, ±15 5/±12, 5/±15	1.6		101.6 x 57.2 x 19.0mm (4" x 2.3" x 0.7") 125 x 57.6 x 24.5mm (4.9" x 2.3" x 1")	Class B, soft start, reverse polarity protected, (RPM(D) DIN-Rail version, (RPM) bulkhead version

DC/DC CONVERTERS

HIGH TEMPERATURE















- Wide operating temperature range
- Built-in EN55022/FCC class B EMC filter (RPP)
- Up to 2.25kVDC/1min isolation
- Compact size, standard pinout
- Efficiency above 92%
- Single & dual outputs
- 4:1 input voltage available (W)
- Complies with EN50155 (RPR)
- Up to 5 years warranty

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation (kVDC)	Certification	Case	Other Features
 RPPxx (W)	20, 30, 40, 50	9-18, 18-36, 36-75, 9-36, 18-75	3.3, 5, 12, 15, 24 ±12, ±15, ±24	2.25		41.0 x 26.0 x 11.7mm (1.6" x 1" x 0.5") 50.8 x 30.5 x 11.7mm (2" x 1.2" x 0.5")	High temperature without derating
 RPRxx-B	20, 30, 40, 50	12-36, 25-75, 40-160	3.3, 5, 12, 15, 24 ±12, ±15, ±24	2.25		50.8 x 40.6 x 11.4mm (2" x 1.6" x 0.4")	Baseplate case with mounting holes EN50155 & NFF01-510 (railways standard) certified

DC/DC CONVERTERS FOR IGBT APPLICATIONS

UNREGULATED

- Designed for IGBT driver circuits
- Asymmetric output
- High isolation
- Wide operating temperature range
- High efficiency
- Different pinout and package style
- Optional continuous short circuit protection
- Certified to EN60950-1
- 3 year warranty

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation (kVDC)	Certification	Case	Other Features
 RP-xx1509D	1	5, 12, 24	+15/-9	5.2	EN 	SIP7	Asymmetric output loads, for isolated IGBT drivers
 RH-xx1509D	1	5, 12, 24	+15/-9	3 or 4	EN 	SIP7	Asymmetric output loads, for isolated IGBT drivers
 RxxP1509D	1	5, 12, 24	+15/-9	6.4	EN 	SIP7	Asymmetric output loads, for isolated IGBT drivers
 RV-xx1509D	2	5, 12, 24	+15/-9	6	EN 	DIP24	Asymmetric output loads, for isolated IGBT drivers
 RKZ-xx1509D	2	5, 12, 24	+15/-9	3 or 4	EN 	SIP7	Asymmetric output loads, for isolated IGBT drivers
 RxxP21509D	2	5, 12, 24	+15/-9	6.4	EN 	SIP7	Asymmetric output loads, for isolated IGBT drivers
 RGZ-xx1509D	2	5, 12, 24	+15/-9	3 or 4	EN 	DIP14	Asymmetric output loads, for isolated IGBT drivers

SWITCHING REGULATORS

STEP DOWN




- Ultra high specification
- Wide operating temperature range
- MTBF up to 3.0 Million hours
- Non-isolated
- No heatsink required
- High efficiency
- Internal SMD construction
- Step down regulators with up to 96% efficiency
- RoHS and REACH compliant
- Built-in EN55022 FCC Class B filter
- 3 year warranty

Series	Output current (A)	Vin (V)	Vout (V)	Certification	Case	Other features
 R-78HBxx-0.5 (R-78HB24-0.3)	0.5 (0.3)	9-72 (36-72)	3.3, 5.0, 6.5, 9.0, 12, 15 (24)	EN 	SIP3	High input voltage, 90° pins (L)
 R-78xx-0.5	0.5	4.75-32	1.5, 1.8, 2.5, 3.3, 5.0, 6.5, 9.0, 12, 15	EN 	SIP3	Very high efficiency
 R-78AAxx-0.5SMD	0.5	4.75-32	1.5, 1.8, 2.5, 3.3, 5.0, 6.5, 9.0, 12, 15	EN 	SMD	High efficiency, RoHS 6/6, adjustable output, on/off pin
 R-78Wxx-0.5	0.5	6.5-32	3.3, 5, 9, 12	EN	Wired	Very high efficiency
 R-78xx-1.0	1.0	4.75-18	1.8, 2.5, 3.3, 5.0	EN 	SIP3	Very high efficiency
 R-78AAxx-1.0SMD	1.0	4.75-18	1.5, 1.8, 2.5, 3.3, 5.0	EN 	SMD	High efficiency, RoHS 6/6, adjustable output, on/off pin
 R-78Bxx-1.0	1.0	4.75-32	1.5, 1.8, 2.5, 3.3, 5.0, 6.5, 9.0, 12, 15	EN 	SIP3	Very high efficiency, 90° pins (L)
 R-78Cxx-1.0	1.0	5-42	1.8, 3.3, 5.0, 9.0, 12, 15	EN 	SIP3	Very high efficiency, wide input range, 1Amps continuously in small package
 R-78Txx-1.0	1.0	7-42	3.3, 5, 12		SMD	Very high efficiency, wide input range
 R-78Bxx-1.5	1.5	4.75-18	1.5, 1.8, 2.5, 3.3, 5.0, 6.5	EN 	SIP3	Very high efficiency, 90° pins (L)

SWITCHING REGULATORS

STEP DOWN


- Ultra high specification
- Wide operating temperature range
- MTBF up to 3.0 Million hours
- Non-isolated
- No heatsink required
- High efficiency
- Internal SMD construction
- RoHS and REACH compliant
- Step down regulators with up to 96% efficiency
- 3 year warranty

Series	Output current (A)	Vin (V)	Vout (V)	Certification	Case	Other features
 R-5xxxPA/DA	2, 3, 4, 5	4.5-18	1.2, 1.8, 2.5, 3.3, 5	EN IEC	SIP12	Auto sense, very high efficiency, adjustable output, 90° pins (DA), cascable output up to 8A
 R-6xxxP/D	1, 2	9-32	1.8, 2.5, 3.3, 5, 9, 12	EN IEC	SIP12	Very high efficiency, adjustable output, 90° pins (D)
 R-7xxxP/D	2, 3, 4	4.5-28	3.3, 5.0, 6.5, 9.0, 12, 15	EN IEC	SIP12	Very high efficiency, adjustable output, 90° pins (D)

SWITCHING REGULATORS

HIGH VOLTAGE OUTPUT













- High output voltage DIP24 converter
- Improved version of Rxx-100_150A series
- Input voltage 5, 12, 15 or 24VDC
- Adjustable output voltage up to 210VDC
- Cascadeable for output voltages up to 420VDC
- 3kVDC input/output isolation
- Remote voltage programming by external voltage or resistance
- Continuous short circuit protection
- Wide operating temperature range
- 3 year warranty

Series	Output current (mA)	Vin (VDC)	Vout (VDC)	Isolation (kVDC)	Certification	Case	Other features
 Rxx-B	25, 50	5, 12, 15, 24	40-120, 55-135, 95-210	3	EN IEC	DIP24	Output voltages up to 420VDC, cascable

CONVERTERS FOR COST-SENSITIVE APPLICATIONS

DC/DC CONVERTERS





- Industry standard pinout
- Miniature SMD/SIP packages
- 1kVDC or 3.75kVDC isolation
- Efficiency up to 76%
- 100% tested converters
- Wide operating temperature range
- 3 year warranty

Series	Power (W)	Vin (VDC)	Vout (VDC)	Isolation (kVDC)	Certification	Case	Other Features
 R1SE	1	5	5	1		SMD	Low cost, tape & reel packaging available
new  R1SE/H2	1	3.3, 5, 12, 15	5, 12, 15	2		SMD	Low cost
 ROE	1	5	5	1		SIP4	Low cost
 REE	1	5	5	1		SIP7	Low cost
 RBE	1	5	5	1		SIP7	Low cost
 RKE/H	1	5	5	3.75		SIP7	Low cost

CONVERTERS FOR COST-SENSITIVE APPLICATIONS

SWITCHING REGULATORS - STEP DOWN

























- Industry standard pinout
- Miniature SMD/SIP packages
- 1kVDC or 3.75kVDC isolation
- Efficiency up to 76%
- 100% tested converters
- Wide operating temperature range
- 3 year warranty

Series	Output Current (A)	Vin (VDC)	Vout (VDC)	Certification	Case	Other Features
 R-78E-0.5	0.5	6-28	3.3, 5	EN 	SIP3	Low cost
 ROF-78E	0.5	5-36	3.3, 5		SMD	Low cost, pinless design, on/off pin
 R-78E-1.0	1.0	8-28	3.3, 5	EN	SIP3	Low cost

new

























AC/DC CONVERTERS

- Universal AC input voltage
- Regulated outputs
- Low output ripple & noise
- High density packages
- Short circuit protection with autorecovery
- Single, dual and multiple outputs
- Up to 150 Watts
- RoHS compliant
- EuP compliant (<0.5W in standby)
- Operating temperature to 85°C
- Optional flying wires (/W)
- Class B filter built-in
- Ultra compact size
- 3 year warranty

Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation (kVAC)	Certification	Case	Other Features
 RAC01-C	1	80-264	3.3, 5, 9, 12, 15, 24	3	EN  IEC  CE marked	33.7 x 22.2 x 17.75mm (1.3" x 0.9" x 0.7")	Low power, low no load power consumption (30mW)
 RAC02-C	2	80-264	3.3, 5, 9, 12, 15, 24	3	EN  IEC  CE marked	33.7 x 22.2 x 17.75mm (1.3" x 0.9" x 0.7")	Low power, low no load power consumption (30mW)
new  RAC02-SE/277	2	85-305	3.3, 5, 12, 24	3	EN  IEC  CE marked	33.7 x 22.2 x 17.75mm (1.3" x 0.9" x 0.7")	Wide input voltage range, low no load power consumption (35mW)
new  RAC02-SE/277/W	2	85-305	3.3, 5, 12, 24	3	EN  IEC  CE marked	33.7 x 22.2 x 17.75mm (1.3" x 0.9" x 0.7")	Wide operating temperature range (-40°C to +85°C), low no load power consumption (35mW), flying wires
 RAC03-C	3	80-264	3.3, 3.8, 5, 9, 12, 15, 24	3	EN  IEC  CE marked	37.8 x 23.9 x 16.4mm (1.5" x 0.9" x 0.6")	Low no load power consumption (80mW)
new  RAC03-SE/277	3	85-305	3.3, 5, 12, 24	3	EN  IEC  CE marked	38.25 x 24.35 x 17.4mm (1.5" x 1" x 0.7")	Wide operating temperature range, Wide input voltage range, low no load power consumption (30mW)
new  RAC03-SE/277/W	3	85-305	3.3, 5, 12, 24	3	EN  IEC  CE marked	38.25 x 24.35 x 17.4mm (1.5" x 1" x 0.7")	Wide input voltage range, flying wires, low no load power consumption (30mW)
new  RAC03-SER/277	3	85-305	3.3, 5, 12, 24	3	EN  IEC  CE marked	50.3 (dia.) x 11.1mm (2" x 0.4")	Wide input voltage range, flat, round design, low no load power consumption (75mW)














AC/DC CONVERTERS

- Universal AC input voltage
- Regulated outputs
- Low output ripple & noise
- High density packages
- Short circuit protection with autorecovery
- Single, dual and multiple outputs
- Up to 150 Watts
- RoHS compliant
- EuP compliant (<0.5W in standby)
- Operating temperature to 85°C
- Optional flying wires (W)
- Class B filter built-in
- Ultra compact size
- 3 year warranty

Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation (kVAC)	Certification	Case	Other Features
 RAC04-C	4	80-264	3.3, 5, 9, 12, 15, 24	3	EN  IEC  CE marked	37.8 x 23.9 x 16.4mm (1.5" x 0.9" x 0.6")	Low output ripple & noise
 RAC04-C/230	4	80-264	3.3, 5, 12, 15, 24, ±5, ±12 5/12	3.75	EN  IEC  CE marked	36.7 x 27.2 x 17.1mm (1.5" x 1.1" x 0.7")	Low ripple & noise, high efficiency, -40°C operating temperature
 RAC04-C/277	4	80-305	3.3, 5, 12, 15, 24, ±5, ±12 5/12	3.75	EN  IEC  CE marked	36.7 x 27.2 x 17.7mm (1.4" x 1.1" x 0.7")	Single / dual outputs, (-E) version with extended operating temperature range: -40°C to +85°C
 RAC04-C/W	4	80-264	3.3, 5, 9, 12, 15, 24	3	EN  IEC  CE marked	37.8 x 23.9 x 16.4mm (1.5" x 1.0" x 0.7")	Low no load power consumption, flying wires
 RAC05-C	5	80-264	3.3, 5, 9, 12, 15, 24, ±5, ±12, ±15	3	EN  IEC  CE marked	50.9 x 25.5 x 16.4 mm (S) (2" x 1" x 0.6") 53.5 x 27.8 x 16.4 mm (D) (2.1" x 1.1" x 0.65")	Single / dual outputs, optional flying wires
 RAC06-C	6	80-264	3.3, 5, 9, 12, 15, 24, ±5, ±12, ±15	3	EN  IEC  CE marked	50.9 x 25.5 x 16.4 mm (S) (2" x 1" x 0.6") 53.5 x 27.8 x 16.4 mm (D) (2.1" x 1.1" x 0.65")	Single / dual outputs, optional flying wires
 RAC10-C/277	10	80-305	3.3, 5, 12, 15, 24, ±5, ±12, ±15	3.75	EN  IEC  CE marked	52.5 x 27.4 x 23.5 mm (2.1" x 1.1" x 0.9")	Industry standard, single / dual outputs
 RAC20-B	20	90-264	3.3, 5, 12, 15, 24	3	 IEC  CE marked	52.5 x 27.4 x 23.5 mm (2.1" x 1.1" x 0.9")	High power density






AC/DC CONVERTERS

- Universal AC input voltage
- Regulated outputs
- Low output ripple & noise
- High density packages
- Short circuit protection with autorecovery
- Single, dual and multiple outputs
- Up to 150 Watts
- RoHS compliant
- EuP compliant (<0.5W in standby)
- Operating temperature to 85°C
- Optional flying wires (/W)
- Class B filter built-in
- Warranty up to 5 years

Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation (kVAC)	Certification	Case	Other Features
 RAC30-A	30	90-264	3.3, 5, 12, 15, 24, ±5, ±12, ±15, 5/12, 5/±12, 5/±12	3		89 x 63.5 x 25mm (3.5" x 2.5" x 1")	Industry standard
 RAC48/OF	48	90-264	5, 12, 15, 24	3		101.6 x 50.8 x 30mm (4" x 2" x 1.2")	Power indicator LED, output trim
 RAC60-B	60	85-265	5, 9, 12, 15, 24, 48	4		109 x 58.5 x 30mm (4.3" x 2.3" x 1.2")	Industry standard
 RAC60/OF	60	90-264	5, 12, 15, 24	3		101.6 x 50.8 x 30mm (4" x 2" x 1.2")	Power indicator LED, output trim
 RACM100	100	85-264	12, 15, 24, 48	4		91.4 x 62 x 39.2mm (3.8" x 2.5" x 1.6")	2MOPP for patient safety, active PFC, ultra compact size, high efficiency, 5 year warranty, 5000m operation
 RACM150	135	85-264	12, 15, 24, 48	4		116.8 x 62 x 49.6mm (4.6" x 2.5" x 2")	2MOPP for patient safety, active PFC, ultra compact size, high efficiency, 5 year warranty, 5000m operation, optional with fan (/F)
 Connector Set							Supplement for RAC48/OF & RAC60/OF

DIN RAIL MODULES













- Universal AC/DC input voltage
- High reliability components to guarantee a long, trouble-free life
- Compact modules
- Overvoltage, overcurrent, short-circuit and overtemperature protected
- UL / IEC / EN 60950-1 (CB) UL 508 and CE marked
- ErP compliant
- Warranty up to 7 years

Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation (kVAC)	Certification	Case	Other Features
 DIN-RAIL	1-10	n/a	n/a	n/a	n/a	87.8 x 41.5 x 28.6mm (3.5" x 1.6" x 0.3")	Screw terminal mouting, bracket with DIN RAIL, fits all RECOM AC/DC modules up to 10W
new  REDIN45	45	85-264	12, 24	3.75	EN  CE marked	45.1 x 92.0 x 101.2mm (1.8" x 3.6" x 4.0")	Compact size, standard or side mounting, 7 year warranty
new  REDIN60	60	85-264	12, 24	3.75	EN  CE marked	45.1 x 92.0 x 101.2mm (1.8" x 3.6" x 4.0")	Compact size, standard or side mounting, 7 year warranty

LED DRIVERS

CONSTANT CURRENT AC INPUT NON-DIMMABLE














- Universal input voltage
- Power factor corrected (12W and above)
- High efficiencies
- Ultra compact packages
- Constant current outputs:
250mA to 1400mA
- RoHS and REACH compliant
- UL8750 listed comply EN61000-3-2 class C
- 277VAC input option
- Up to 5 years warranty

Series	Power (W)	Output Current (mA)	Vin (VAC)	Vout (VDC)	Isolation (kVAC)	Certification	Case	Other Features
 RACD03	3	350, 500, 700	90-264	2.5-15, 2.5-11, 2.5-6	3	EN CE marked 	52.1 x 29.6 x 23.1mm (1.5" x 1.2" x 0.9")	IP66, ultra compact size, 3 year warranty
 RACD06	6	350, 500, 700	90-264	2.5-24, 2.5-15, 2.5-12	3	EN CE marked 	58 x 35 x 21mm (2.3" x 1.4" x 0.8")	Ultra compact size, 3 year warranty
 RACD07	7	250, 350, 500, 700	90-295	14-28, 10-20, 5-14.5, 3-10.5	3.75	EN CE marked 	49 x 40.8 x 24mm (1.9" x 1.6" x 0.9")	IP67, ultra compact size, 3 year warranty
 RACD12	12	350, 500, 700	90-264	3-36, 3-24, 3-17	3	EN CE marked 	123 x 45 x 18mm (4.9" x 1.8" x 0.8")	5 year warranty, low profile, easy connection
 RACD20	20	350, 500, 700, 1050	90-264	6-56, 6-40, 6-29, 5-17	3	EN CE marked 	145 x 50 x 22mm (5.8" x 2" x 0.9")	5 year warranty, low profile, easy connection
 RACD20/277	20	350, 500, 700, 1050	90-305	28-57, 20-40, 14-29, 10.8-19	3.75	EN CE marked 	80 x 74 x 26.5mm (3.2" x 3" x 1.1")	IP66, 5 year warranty, low profile, extended input voltage

LED DRIVERS

CONSTANT CURRENT AC INPUT NON-DIMMABLE

- Universal input voltage
- Power factor corrected
- High efficiencies
- Ultra compact packages
- Constant current outputs:
500mA to 11000mA
- RoHS and REACH compliant
- UL8750 listed comply EN61000-3-2 class C
- 277VAC input option
- 5 year warranty






Series	Power (W)	Output Current (mA)	Vin (VAC)	Vout (VDC)	Isolation (kVAC)	Certification	Case	Other Features
 RACD30	30	500, 700	90-264	10-56, 10-43	3	EN  CE marked	160 x 50 x 22mm (6.3" x 2" x 0.9")	5 year warranty, low profile, easy connections
 RACD60/OF	60	700-1100, 1400-2140, 2150-2500, 3570-4200	90-264	38-54, 21-28, 17-24, 11-13.5	3.75	EN  CE marked	101.6 x 50.8 x 28mm (4" x 2" x 1")	5 year warranty, ultra compact size, thermal feedback (/TOF) adjustable output current
 RACD60/IP67	60	700, 1050, 1400, 2100, 2400, 4200	90-264	38-54, 21-28, 17-24, 11-13.5	3.75	EN  CE marked	125 x 60 x 35mm (4" x 2" x 1")	5 year warranty, IP67 rated, ultra compact size
 RACD100	100	2100, 2800, 4200, 8300	90-305	34-48, 26-36, 14-24, 9-12	3.75	EN   CE marked	222 x 68 x 39mm (8.7" x 2.7" x 1.5")	5 year warranty, IP67 rated, metal case, high efficiency, NXP Green Chip certified
 RACD150	100	3200, 4200, 6300, 11000	90-305	34-48, 26-36, 14-24, 9-12	3.75	EN   CE marked	222 x 68 x 39mm (8.7" x 2.7" x 1.5")	5 year warranty, IP67 rated, metal case, high efficiency, NXP Green Chip certified
 RCOB	15-46	350, 400, 450, 500, 550, 600, 650, 700, 800, 900, 1050	198-264	25-44	3	CE marked	106 x 67 x 22mm (4.2" x 2.7" x 0.9") 121.7 x 78 x 22mm (4.8" x 3.1" x 0.9")	High efficiency, 3 years warranty

new

LED DRIVERS

CONSTANT CURRENT AC INPUT DIMMABLE






- Universal input voltage
- High efficiency
- High output voltage series
- Constant current outputs:
350mA to 4200mA
- RoHS and REACH compliant
- UL8750 listed comply EN61000-3-2 class C
- Power factor corrected
- 277VAC input option
- PWM dimming
- Analog (1-10V) dimming
- Thermal dimming
- 3in1 dimming (Analog/PWM/Resistor)
- TRIAC Dimming
- 5 year warranty

Series	Power (W)	Output Current (mA)	Vin (VAC)	Vout (VDC)	Isolation (kVAC)	Certification	Case	Other Features
 RACD20-D	20	2x350 or 1x700	200-264 90-130	(2x) 3-34	3	CE marked	155 x 50 x 21mm (6.1" x 2" x 0.9")	Low profile, 1-10V analogue dimming or rheostat dimnable
 RACT20	20	350, 500, 700, 1050	180-264 90-135	30-56, 21-39, 15-28, 12-18	3.75	EN  CE marked	137.5 x 50.2 x 23mm (5.4" x 2" x 0.9")	TRIAC dimming flickerfree to 0%, easy connections
 RACD25-A	25	350, 500, 700, 1050, 2100	90-305	48-57, 36-48, 24-36, 12-24, 9-12	3.75	EN  CE marked	110 x 73.5 x 33mm (4.4" x 2.9" x 1.3")	3 in 1 dimming, IP67 rated
 RACD35-A	35	500, 700, 1000, 1400, 2500	90-305	48-57, 36-48, 24-36, 12-24, 9-12	3.75	EN  CE marked	110 x 73.5 x 33mm (4.4" x 2.9" x 1.3")	3 in 1 dimming, IP67 rated
 RACD45-A	45	700, 1050, 1250, 1850	90-305	40-57, 33-48, 24-36, 15-24	3.75	EN  CE marked	164 x 45.1 x 32.5mm (6.9" x 1.8" x 1.3")	IP67 rated, 3 in 1 dimming, flying leads
 RACD60-A	60	1050, 1200, 1650, 2500, 4200	90-305	40-57, 33-48, 24-36, 15-24, 9-12	3.75	EN  CE marked	164 x 45.1 x 32.5mm (6.9" x 1.8" x 1.3")	IP67 rated, 3 in 1 dimming, flying leads
 RACD60/TOF	60	700-1100, 1400-2140, 2150-2500, 3570-4200	90-264	38-54, 21-28, 17-24, 11-13.5	3.75	EN  CE marked	101.6 x 50.8 x 28mm (4" x 2" x 1")	Ultra compact size, thermal feed- back, adjustable output current

LED DRIVERS

CONSTANT CURRENT AC INPUT DIMMABLE







- Universal input voltage
- High efficiency
- High output voltage series
- Constant current outputs:
350mA to 4200mA
- RoHS and REACH compliant
- UL8750 listed comply EN61000-3-2 class C
- Power factor corrected
- 277VAC input option
- PWM dimming
- Analog (1-10V) dimming
- Thermal dimming
- 3in1 dimming (Analog/PWM/Resistor)
- TRIAC Dimming
- 5 year warranty

Series	Power (W)	Output Current (mA)	Vin (VAC)	Vout (VDC)	Isolation (kVAC)	Certification	Case	Other Features
 new RACD100-A	100	700, 1400	90-305	100-142, 50-71	3.75	EN  CE marked	188 x 57 x 37mm (7.8" x 2.2" x 1.5")	IP67 rated, metal case, high output voltage, high efficiency, NXP green chip technology, 2 in 1 dimming
 new RACD150-A	150	700, 1050, 1400	90-305	60-210, 60-143, 60-107	3.75	EN  CE marked	226 x 68 x 39mm (8.9" x 2.7" x 1.5")	IP67 rated, metal case, high output voltage, high efficiency, NXP green chip technology, 2 in 1 dimming
 new RCOB-A	15-46	350, 700, 1050	198-264	6-44	3	CE marked	106 x 67 x 22mm (4.2" x 2.7" x 0.9") 121.7 x 78 x 22mm (4.8" x 3.1" x 0.9")	High efficiency, 3 years warranty

LED DRIVERS

CONSTANT VOLTAGE AC INPUT
















- Constant current and voltage outputs
- Universal Input Voltage
- Power factor corrected (>12W)
- Ultra compact packages
- Plastic or metal case
- RoHS and REACH compliant
- UL8750 listed comply EN61000-3-2 class C
- ENEC, PSE, CB report and C-Tick
- Up to 5 years warranty

Series	Power (W)	Output Current (mA)	Vin (VAC)	Vout (VDC)	Isolation (kVAC)	Certification	Case	Other Features
 RACD03	3	0-350, 0-500, 0-700	90-264	15, 11, 6	3	EN CE marked	52.1 x 29.6 x 23.1mm (1.5" x 1.2" x 0.9")	IP66, ultra compact size, 3 year warranty
 RACD06	6	0-300, 0-490, 0-600	90-264	24, 15, 12	3	EN CE marked	58 x 35 x 21mm (2.3" x 1.4" x 0.8")	Ultra compact size, 3 year warranty
 RACV30	30	0-1250, 0-2500	90-264	24, 12	3	EN CE marked	160 x 50 x 22mm (2.3" x 1.4" x 0.8")	5 year warranty, constant voltage, low profile
 RACD60/OF	60	700-1100, 1400-2140, 2150-2500, 3570-4200	90-264	54, 28, 24, 13.5	3.75	EN CE marked	101.6 x 50.8 x 28mm (4" x 2" x 1")	Ultra compact size, 5 year warranty, PFC > 0.9
 RACD100	100	0-2100, 0-2800, 0-4200, 0-8300	90-305	48, 36, 24, 12	3.75	EN CE marked	222 x 68 x 39mm (8.7" x 2.7" x 1.5")	5 year warranty, IP67 rated, high efficiency, NXP green chip certified
 RACD150	150	0-3200, 0-4200, 0-6300, 0-11000	90-305	48, 36, 24, 12	3.75	EN CE marked	222 x 68 x 39mm (8.7" x 2.7" x 1.5")	5 year warranty, IP67 rated, high efficiency, NXP green chip certified

LED DRIVERS

CONSTANT CURRENT DC INPUT






- All-in-one
- Ready to use (no external components necessary for basic use)
- High efficiency (up to 96%)
- PWM / digital and analogue dimming
- Wide input voltage range
- Buck & buck-boost topology
- Operating temperature to 85°C
- Low emissions (EMC filter built-in)
- Short circuit protected
- Custom designs available
- 5 year warranty

Series	Output Current (A)	Vin (VDC)	Vout (VDC)	Certification	Case	Other Features
 RCD-24(W)	0.3-1.2	4.5-36	2-35	EN   	DIP/wired	PWM & analogue dimming, wired IP67 (/W), Vref out (/Vref), railways EMC EN50121-3-2 certified
 RCD-24(PL)	0.3-1.0	4.5-36	2-35	EN   	SMD	SMD pinless version, low profile, built-in class A/B filter, PWM & analogue dimming, railways EM EN50121-3-2 certified
 RCD-48(W)	0.35-1.2	9-60	2-56	EN   	DIP/wired	PWM & analogue dimming, wired IP67 (/W), Vref out, metalcase (/M), railways EMC EN50121-3-2 certified
 RBD-12(W)	0.35-0.5	8-36	2-40	EN  	DIP/wired	Buck boost topology, constant current, PWM & analog dimming, Vref out, wired IP67 (/W)

LED DRIVERS

ACCESSORIES

- Leading edge phasecut dimmer
- 1-10V (max. 40mA)
- Noise suppression according VDE 0875
- Wide operating temperature range (-10°C to 80°C)
- Thermal protection (switch and fuse)
- Designed for switch boxes DIN 49073
- Adaptor for 6mm shaft for universal fit
- High quality mechanics for accurate control
- CE marked
- Up to 5 years warranty

Series	Operating Principle	Power	Input Voltage (VAC)	Other Features
 REDIM07	Leading-edge phasecut dimmer	7-110VA (W)	207-253	Designed for LED applications, up to 5 x RACT20
 REDIM20	Leading-edge phasecut dimmer	20-250VA (W)	207-253	For all kinds of lamps, up to 12 x RACT20
 REPOT01-10	1-10V electronic potentiometer	40mA max.	207-253	Usable with all 1-10V standard interfaces, up to 10 x LED driver
 new	DALI-to-PWM/Analogue control signal interface	1.6W	90-290	DALI IEC62386, PWM / 0-10V output, compatible with all RECOM dimmable drivers
 new	DALI Bus Power Supply	3.2W	90-264	Designed to power the DALI bus, DALI compliant

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