



IDEALPOWER

EXPERTS IN POWER SUPPLY PRODUCTS



RAILWAY

Power Supply Product Guide

RAILWAY POWER SUPPLIES

We offer a comprehensive, durable range of Railway Power Supply solutions designed specifically for rail applications and responsibly sourced from a global network of manufacturers.

We have achieved a versatile range of power conversion products that are optimised for use with railway applications, including track-side infrastructure, signalling, crossing control, and in-cabin radio displays through our technical knowledge and expertise.

We provide versatile products that can withstand extreme temperatures, confined spaces, and significant vibrations while standing the test of time. You can bank on infallible performance when you need it most with our vast array of off-the-shelf and custom-made railway power supply solutions.



We have a range of railway power supplies to offer that are certified to EN 50155 standard. This certification takes all the following points into consideration:

- Input requirements
- Electromagnetic compatibility requirements
- Mechanical requirements
- Thermal (temperature, humidity) requirements
- Isolation requirement

LEADING SUPPLIER OF RAILWAY POWER SUPPLIES

We are continuously investing in research and development to ensure we are on the forefront of innovation and compliance. Some of the products we supply are:

- AC/DC power supply units
- DC/DC converters
- LED drivers
- EN 50121-3-2, EN 50155, IEC 60571 and EN 62368-1 standards exceeded
- Power solutions spanning 3 – 450 watts
- Extremely reliable
- A range of input and output modules
- Ideal Power are ISO 9001:2015 compliant

We guarantee you will receive high-quality and highly efficient products meeting all applicable standards having undergone rigorous testing, such as design verification tests (DVTs) and IRIS certifications.



- Approved to IEC/UL/EN62368-1 & 50155
- Meeting the latest Efficiency standards & approvals
- Approved to the latest approvals worldwide
- Available in many package types



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VIDEO



INFORMATION
TECHNOLOGY



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Series Name	Input Voltage (VDC)	Output Voltage (VDC)	Output power (W)	Dimensions	Package
43RDL03-xyzW	9-160	3.3-24/±5-±15	2-3	0.86x0.38x0.44 Inches	SIP
43RHK03-xyzW	36-160	3.3-24/±5-±15	3	1.25x0.8x0.42 Inches	DIP
43RDL06-xyzW	3-160	3.3-24/±5-±15	5-6	0.86x0.38x0.44 Inches	SIP
43RHK06-xyzW	36-160	3.3-24/±5-±15	6	1.25x0.8x0.42 Inches	DIP
36URA1D-YMD-6WR3	40-160	±5-±15	6	25.4x25.4x11.7mm	DIP
36URB1D-YMD-6WR3	40-160	5-24	6	25.4x25.4x11.7mm	DIP
43FKC08-xSzW	9-160	3.3-15/±5-±15	8	Model Dependent	SMD & DIP
43RCD10-xyzW	9-160	3.3-24/±5-±24	10	1x1x0.39 Inches	DIP
43RHK10-xyzW	36-160	3.3-24/±5-±15	10	1.25x0.8x0.42 Inches	DIP
36URB1D-LMD-10WR3	40-160	3.3-24	10	50.8x25.4x11.8mm	DIP
43RCD15-xyzW	9-160	3.3-24/±5-±24	15	1x1x0.39 Inches	DIP
36URB1D-LMD-15WR3	40-160	3.3-24	15	50.8x25.4x11.8mm	DIP
43RCD20-xyzW	9-160	3.3-24/±12-±24	20	1x1x0.39 Inches	DIP
43RED20-xyzW	9-160	3.3-15/±5-±15	20	2x1x0.4 Inches	DIP
43SSM-110P50-001	43-160	Vin-2	20	1.25x0.8x0.4mm	DIP
36URB1D-LD-20WR3	40-160	3.3-24	20	50.8x25.4x11.8mm	DIP
36URB1D-LMD-20WR3	40-160	3.3-24	20	50.8x25.4x11.8mm	DIP
36URE1D-LD-20WR3	40-160	3.3-24	20	50.8x25.4x11.8mm	DIP
43RCD30-xyzW	9-160	3.3-24	30	1x0.8x0.39 Inches	DIP
43SSM-110008-001	43-160	Vin-2	30	1.6x1x0.4mm	DIP
43FED40xyzW	3-160	3.3-24/±12-±24	40	2x1x0.4 Inches	DIP
43RED40-xyzW	3-160	3.3-53/±12-±24	40	2x1x0.4 Inches	DIP
43RHD40-xyzW	36-160	5-24/±12-±15	40	2x1x0.4 Inches	DIP
36URF1D-LD-40WR3	40-160	3.3-48	40	50.8x25.4x11.8mm	DIP
43RED60-xyzW	9-160	3.3-53/±12-±24	60	2x1x0.4 Inches	DIP

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36URF1D-QB-100WHR3	43-160	3.3-48	100	61.5×39.2×27.8mm	DIP
36URF1D-QB-100WR3	43-160	3.3-48	100	60.8×39.2×12.7mm	DIP
43WAD150-xSzW	3-160	3.3-24/+12-+24	150	3.86x2.07x0.67 Inches	DIP
43WAF150-xSzW	3-160	3.3-24/+12-+24	150	3.86x2.56x0.05 Inches	DIP
36URF1D-HB-150WHR3	43-160	5-48	150	62x58x31.8mm	DIP
36URF1D-HB-150WR3	43-160	5-48	150	61x57.9x13.8mm	DIP
43SSM-110004-001	43-110	Vin-2	150	61x57.9x13.8mm	DIP
HALF BRICK					
43HAE75-xyW	9-160	3.3-48	75	2.28x2.4x0.5 Inches	Half Brick
43HAE100-xSyW	8.5-43	3.3-48	100	2.4x2.28x0.51 Inches	Half Brick
43HAE150-USxy	16-160	3.3-48	150	2.4x2.28x0.51 Inches	Half Brick
43HAE150-xSyW	8.5-43	3.3-48	150	Model Dependant	Half Brick
43HAE200-USxy	16-160	3.3-48	200	2.4x2.28x0.51 Inches	Half Brick
43HAE200-xSyW	8.5-43	3.3-48	200	Depending on model	Half Brick
36URF1D-HB-250WR3	40-160	5-54	250	61x57.9x13.8mm	Half Brick
QUARTER BRICK					
43QAE40-xSyU	9-160	5-54	40	2.28x1.45x0.5 Inches	Quarter Brick
36URF1D-QB-50WR3	43-160	3.3-48	50	60.8x39.2x12.7mm	Quarter Brick
43QAE60-xSyU	9-160	5-53	60	1.45x2.28x0.5 Inches	Quarter Brick
36URF1D-QB-75WR3	43-160	3.3-48	75	60.8x39.2x12.7mm	Quarter Brick
43QAE100-xSyU	9-160	5-53	100	1.45x2.28x0.5 Inches	Quarter Brick
43QAE100-xSyW	9-160	5-53	100	1.45x2.28x0.5 Inches	Quarter Brick
43QAE150-xSyW	8.5-160	3.3-48	150	1.45x2.28x0.5 Inches	Quarter Brick

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36URA1D-YMD-6WR3-A4S	40-160	5-24/+5-±15	6	76x31.5x25.8mm	DIN Rail
36URB1D-YMD-6WR3-A4S	40-160	5-24/+5-±15	6	76x31.5x25.8mm	DIN Rail
36URB1D-LMD-10WR3-A4S	40-160	3.3-24	10	76x31.5x25.8mm	DIN Rail
36URB1D-LMD-15WR3-A4S	40-160	3.3-24	15	76x31.5x25.8mm	DIN Rail
36URB1D-LMD-20WR3-A4S	40-160	3.3-24	20	76x31.5x25.8mm	DIN Rail
36URB1D-LD-20WR3-A4S	40-160	3.3-24	20	76x31.5x25.8mm	DIN Rail
43URED20-xyzW-DR	18-160	12-48	20	3.626x1.77x1.09 Inches	DIN Rail
36URE1D-LD-20WR3-A4S	40-160	±12-±24	20	76x31.5x25.8mm	DIN Rail
36URF1D-LD-40WR3-A4S	40-160	3.3-48	40	76x31.5x25.8mm	DIN Rail
43UFED40-xyW-DR	3-160	3.3-24/+12-±24	40	3.62x1.77x1.09 Inches	DIN Rail
36URF1D-QB-100WR3-A6	43-160	3.3-48	100	137x70x23.6mm	DIN Rail
36URF1D-QB-100WHR3-A6	43-160	3.3-48	100	137x70x37.2mm	DIN Rail
43WAF300-xSyW	18-160	12-48	300	4x6x1.86 Inches	DIN Rail

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36URA1D-YMD-6WR3-A2S	40-160	5-24/+5-±15	6	76x31.5x21.2mm	Metal
36URB1D-YMD-6WR3-A2S	40-160	5-24/+5-±15	6	76x31.5x21.2mm	Metal
36URB1D-LMD-10WR3-A2S	40-160	3.3-24	10	76x31.5x21.2mm	Metal
36URB1D-LMD-15WR3-A2S	40-160	3.3-24	15	76x31.5x21.2mm	Metal
36URB1D-LMD-20WR3-A2S	40-160	3.3-24	20	76x31.5x21.2mm	Metal
36URB1D-LD-20WR3-A2S	40-160	3.3-24	20	76x31.5x21.2mm	Metal
36URE1D-LD-20WR3-A2S	40-160	±12-±24	20	76x31.5x21.2mm	Metal
43URED20-xyzW-EC	40-160	±12-±24	20	4x2.25x0.79 Inches	Metal
43UFED40-xyW-EC	3-160	3.3-24/+12-±24	40	4x2.25x0.79 Inches	Metal
36URF1D-LD-40WR3-A2S	40-160	3.3-48	40	76x31.5x21.2mm	Metal
36URF1D-QB-100WR3-A5	40-160	3.3-24	100	135x70x22.6mm	Metal
36URF1D-QB-100WHR3-A5	40-160	3.3-48	100	135x70x36.2mm	Metal
36URF1D-HB-150WR3-A5	40-160	5-48	150	135x70x22.4mm	Metal
36URF1D-HB-150WHR3-A5	43-160	5-48	150	135x70x40.4mm	Metal
36URF1D-HB-250WR3-A7	43-160	5-54	250	165x78x41.5mm	Metal
43WAF300-xSyW-DR	18-160	12-48	300	4x6x1.86 Inches	Metal