

# Martek Power converters and inverters for railway applications



## DC/DC converters

**Input Voltages:** 24, 36, 52, 72, 110V dc

**Applicable Norms:** EN 50155, EN 50121-3-2, EN 45545

	Power	Series	Output Voltage (s)	Outputs	Construction	Dimensions (LxWxH)	EN50155 S2 (10ms)	RIA12	Notes
	10W	D10R	5 to 48Vdc	1	Encapsulated IP65 or open frame	70x50x30mm	✓	✓	Connections via pins for PCB mounting or flying leads
	15W	MBR	5 to 48Vdc	1,2 or 3	Encapsulated IP65	84x72x32mm	✓	✓	Connections via pins for PCB mounting or flying leads
	25W	MBRH	5 to 48Vdc	1	Encapsulated IP65	84x72x32mm	✓	✓	Connections via pins for PCB mounting or flying leads
	25W	USBR	5.2V (2 off)	2	Enclosed	105x70x42mm	✓	✗	Designed for USB charging Other outputs available IP40, IP54 & IP65 versions
	35W	JL	5 to 110Vdc	1	Open frame or enclosed	220x73x30mm (PCB)	✓	Option	specify JLR series for RIA12 compliance



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## DC/DC converters (continued)

	Power	Series	Output voltage (s)	Outputs	Construction	Dimensions (LxWxH)	EN50155 S2 (10ms)	RIA12	Notes
	35W	JLM	5 to 48Vdc	1	Open frame or enclosed	110x80x22mm (PCB)	✓	✗	
	50W	JLH	5 to 48Vdc	1	Open frame or enclosed	220 x 73 x 30mm (PCB)	✓	Option	specify JLHR series for RIA12 compliance
	50W	JLHM	5 to 48Vdc	1	Open frame or enclosed	110 x 80 x 22mm (PCB)	✓	✗	Conduction cooled version also available
	50W	SQ	3.3 to 24Vdc	1	Open frame (conduction cooled)	256 x 80 x 25mm	✓	✓	
	50W	CCR	5 to 24Vdc	1	Open frame (conduction cooled). Optional cover.	105 x 100 x 35.5mm	✓	✗	Single wide input range (16.8 to 137.5V continuous)
	55W	DR	5 to 48Vdc	1, 2 or 3	3U Euro Cassette	169mm x 8TE x 3U	✓	✓	
	100W	VER	12 to 48Vdc	1	Open Frame (conduction cooled). Optional cover.	110x70x40mm (standard)	with enhanced version	✗	Enhanced version adds S2 holdup, active inrush & output monitor signal
	100W	CPCIR	3V3, 5V1 & 12V	3	3U Compact PCI with parallel plate. Full cover optional.	180 x 70 x 40mm (enhanced)	✓	✗	Model BF covers 24/36V inputs, model AD covers 72/110V inputs
	120W	SRE	5 to 48Vdc	1 or 2	3U Euro Cassette	169mm x 4TE x 3U	✗	✗	Additional HM120 holdup module supports S2 (10ms)
	140W	EBR	12 to 48Vdc	1	Enclosed	300 x 180 x 60mm with base plate	✓	✓	
	150W	ER	5 to 48Vdc	1 or 2	3U Euro Cassette	169 x 44 x 112mm	✓	✓	
	150W	ERL	12 to 48Vdc	1	3U Euro Cassette	169 x 44 x 112mm	✓	✓	
	200W	XER	12 to 48Vdc	1	Open Frame (conduction cooled). Optional cover.	200 x 80 x 50mm	✓	✗	Model BF covers 24/36V inputs, model AD covers 72/110V inputs
	300W	PMEH	15 or 24Vdc	1	Enclosed	188 x 116 x 43mm	✓	✗	Model BF covers 24/36V inputs, model AD covers 72/110V inputs

## DC/DC converters (continued)

	Power	Series	Output voltage (s)	Outputs	Construction	Dimensions (LxWxH)	EN50155 S2 (10ms)	RIA12	Notes
	300W	ATG	12 to 110Vdc	1	Enclosed (conduction cooled)	238 x 130 x 60mm	see data sheet	Option	
	400W	NSH	12 to 48Vdc	1	Enclosed	260 x 160 x 75mm	✓	✓	
	500W	PMR	12 to 60Vdc	1	Enclosed (conduction cooled)	250 x 158 x 70mm	✓	Filter PCB available	Convection cooled version with heatsink also available

## DC/AC inverters

**Input Voltages:** 24, 36, 52, 72, 110V dc

**Applicable Norms:** EN 50155, EN 50121-3-2, EN 45545

	Power	Series	Output voltage (s)	Outputs	Construction	Dimensions (LxWxH)	EN50155 S2 (10ms)	RIA12	Notes
	250W	ACR	230Vac	1	Chassis mount IP65	280x180x100mm	✓	✓	Dimensions exclude mounting plate
	750W	ACR	230Vac	1	Chassis mount IP65	395x250x145mm	✓	✓	
	750W	ASP	230Vac	1	Chassis mount IP65	500x240x125mm	✓	✓	Lockable access door to MCB / RCD

## AC/DC converters

**Input Voltages:** 230Vac (110Vac also available for some models)

**Applicable Norms:** EN 50155, EN 50121-3-2, EN 45545

	Power	Series	Output voltage (s)	Outputs	Construction	Dimensions (LxWxH)	EN50155 S2 (10ms)	RIA12	Notes
	25W	MBRH suffix Z	5 to 48Vdc	1	Encapsulated IP65	84x72x32mm	✓	n/a	
	25W	USBR	5.2V (2 off)	2	Enclosed	105x70x42mm	✓	n/a	110/230Vac wide range Designed for USB charging Other outputs available IP40, IP54, IP65 versions
	55W	ABR	5 to 24Vdc	1	3U Euro Cassette	169mm x 8TE x 3U	✓	n/a	230Vac or 110/230Vac models available
	300W	ATG suffix Z	12 to 48Vdc	1	Enclosed (conduction cooled)	238x130x60mm	✓	n/a	
	500W	PMR suffix Z	12 to 60Vdc	1	Enclosed (conduction cooled)	250x158x70mm	✓	n/a	