








# MARTEK POWER

## CONVERTERS AND INVERTERS FOR RAILWAY APPLICATIONS












### DC/DC converters

**Input Voltages:** 24, 36, 52, 72, 110VDC **Applicable**




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

	Power	Series	Output Voltage (s)	Outputs	Construction	Dimensions (LxWxH)	EN 50155 S2 (10ms)	RIA12	Notes
	10W	<b>D10R</b>	5 to 48VDC	1	Encapsulated IP65 or open frame	70x50x30mm	✓	✓	Connections via pins for PCB mounting or flying leads
	15W	<b>MBR</b>	5 to 48VDC	1,2 or 3	Encapsulated IP65	84x72x32mm	✓	✓	Connections via pins for PCB mounting or flying leads
	25W	<b>MBRH</b>	5 to 48VDC	1	Encapsulated IP65	84x72x32mm	✓	✓	Connections via pins for PCB mounting or flying leads
	25W	<b>USBR</b>	5.2V (2 off)	2	Enclosed	105x70x42mm	✓	✗	Designed for USB charging Other outputs available IP40, IP54 & IP65 versions
	35W	<b>JL</b>	5 to 110VDC	1	Open frame or enclosed	220x73x30mm (PCB)	✓	Option	specify JLR series for RIA12 compliance

## DC/DC converters (continued)

	Power	Series	Output voltage (s)	Outputs	Construction	Dimensions (LxWxH)	EN 50155 S2 (10ms)	RIA12	Notes
	35W	<b>JLM</b>	5 to 48VDC	1	Open frame or enclosed	110x80x22mm (PCB)	✓	✗	
	50W	<b>JLH</b>	5 to 48VDC	1	Open frame or enclosed	220 x 73 x 30mm (PCB)	✓	Option	specify JLHR series for RIA12 compliance
	50W	<b>JLHM</b>	5 to 48VDC	1	Open frame or enclosed	110 x 80 x 22mm (PCB)	✓	✗	Conduction cooled version also available
	55W	<b>DR</b>	5 to 48VDC	1, 2 or 3	3U Euro Cassette	169mm x 8TE x 3U	✓	✓	
	75W	<b>PMEL</b>	12 to 24VDC	1	Enclosed	119 x 73 x 37.5mm	✓	✗	Ultra-wide input range (16.8 - 137.5VDC)
	100W	<b>VER</b>	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
	120W	<b>SRE</b>	5 to 48VDC	1 or 2	3U Euro Cassette	169mm x 4TE x 3U	✗	✗	Additional HM120 holdup module supports S2 (10ms)
	150W	<b>PMEM</b>	12to24VDC	1	Enclosed	165 x 96 x 41mm	✓	✗	Ultra-wide input range (16.8-137.5VDC)
	150W	<b>ER</b>	5 to 48VDC	1 or 2	3U Euro Cassette	169 x 44 x 112mm	✓	✓	
	150W	<b>ERL</b>	12 to 48VDC	1	3U Euro Cassette	169 x 44 x 112mm	✓	✓	
	200W	<b>XER</b>	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	<b>PMEH</b>	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)	EN 50155 S2 (10ms)	RIA12	Notes
	300W	<b>ATG</b>	12 to 110VDC	1	Enclosed (conduction cooled)	238 x 130 x 60mm	see data sheet	Option	
	400W	<b>NSH</b>	12 to 48VDC	1	Enclosed	260 x 160 x 75mm	✓	✓	
	500W	<b>PMR</b>	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, 110VDC **Applicable**






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

	Power	Series	Output voltage (s)	Outputs	Construction	Dimensions (LxWxH)	EN 50155 S2 (10ms)	RIA12	Notes
	750W	<b>ACR</b>	230VAC	1	Chassis mount IP65	395x250x145mm	✓	✓	
	750W	<b>ASP</b>	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	<b>MBRH</b> suffix Z	5 to 48VDC	1	Encapsulated IP65	84x72x32mm	✓	n/a	
	25W	<b>USBR</b>	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	<b>ABR</b>	5 to 24VDC	1	3U Euro Cassette	169mm x 8TE x 3U	✓	n/a	230Vac or 110/230Vac models available
	300W	<b>ATG</b> suffix Z	12 to 48VDC	1	Enclosed (conduction cooled)	238x130x60mm	✓	n/a	
	300W	<b>PMEH</b>	15 or 24VDC	1	Enclosed	188 x 116 x 43mm	✓	✗	

LPA Group makes every effort to ensure the accuracy of the information contained within this datasheet. **However** we reserve the right to **withdraw** & re-issue this datasheet at a later date.



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