

Model KR-A.P / RH-MW

RECTIFIER FOR ELECTROMAGNETIC LIFMA*



[Application]

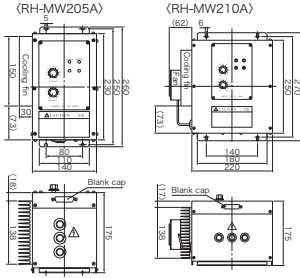
These units rectify AC power to DC and supply it to electromagnetic Lifma. All electromagnetic Lifmas require a rectifier. Three models are available; KR-P, A, RH-MW. Select them according to your purpose of usage.

■ RH-MW 《Rectifier with reverse exciting circuit》

Workpieces with flat lifting surfaces, or made from material which tends to retain residual magnetism, may not be easy to release when the power supply is turned OFF. In these cases, a reverse current flow, is needed to cancel the residual magnetism, and complete the release.

[Features]

- The DC voltage can be varied in a range of 0 to 180V.
- External control input terminals are provided.
- An overvoltage protection function is incorporated.



⚠ Precaution for use

- The rectifier KR Series and RH Series use electronic PC boards and small relays inside the rectifiers and therefore, are not suitable for use in applications subjected to constant vibrations, such as on cranes, for example. Such use also voids the warranty even if a failure occurs within the warranty period. For installation in places that are subjected to constant vibrations, anti-vibration measures need to be taken. The external signal input wires must be shielding wires and must be limited to 10 m long maximum.
- Operation procedures and technical specifications of other manufactures lifting magnets should not be applied to our lifting magnets or, any other makes.

Model	Input	Output			Dimensions			Remote Switch	Ammeter	Auto Reverse	Mass
		Voltage	Current	Capacity	Width	Depth	Height				
KR-P203	Single phase	180 VDC	3A	540W	200	90	250	○	×	×	3kg/ 6.6 lb
KR-P208			8A	1440W							
KR-A203			3A	540W	(7.87)	(3.54)	(9.84)				
KR-A208			8A	1440W							
RH-MW205A	200 VAC	0-180 VDC	5A	900W	140	175	260	×	×	○	4.5kg/ 9.9 lb
RH-MW210A			282	1800W	(5.51)	(6.89)	(10.2)				
			10A	1800W	(11.1)	(11.4)	(11.4)				

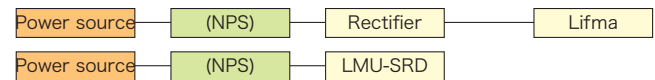
*External operation is necessary for ON/OFF. Please prepare input-signal by a customer.
*Please refer to P.73 for terminal wiring diagram for RH-M.

Model LBB NON-INTERRUPT POWER SUPPLY

In some cases, the installation of a NON-INTERRUPT power supply (NPS) is requested for use of electromagnetic Lifma as a safety measure in the event of power failure.

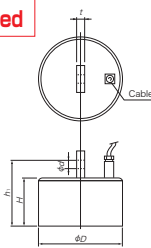
This UPS needs to be fabricated according to types of rectifiers and required output capacity. Please consult with us in advance.

■ Connection diagram



Model LEP ELECTRO-PERMANENT MAGNETIC LIFMA

Rectifier is separately needed



[Application]

These are electro-permanent magnetic type lifting and transporting magnets that enable the magnetization and demagnetization of the built-in permanent magnet to be controlled electrically. Suitable for steel plates and iron products that have a flat attractive face and can be held on the whole area.

[Features]

- Since a permanent magnet is used, the holding power is maintained in the event of power failure to enhance safety.
- Since holding and releasing is controlled electrically, these magnets can be operated remotely by use of pushbuttons.
- A system to demagnetize the permanent magnet to release the lifted workpiece. Thus, these magnets are not attracted by iron products in other operations, enhancing safety.
- Use the dedicated power source LEPR.



Model	Lifting Capacity	Dimensions					Shackle	Voltage	Power Consumption	Mass
		D	H	h ₁	d ₁	t				
LEP-15	100kg/ 220 lb	156(6.14)	105(4.13)	138(5.43)	16(0.62)	16(0.62)	BC12(0.47)	160VDC	0.38kW	12kg/ 26.4 lb
LEP-20	150kg/ 330 lb	206(8.10)	115(4.52)	154(6.06)	20(0.78)	19(0.74)	BC14(0.55)		0.47kW	22kg/ 48.5 lb
LEP-25	350kg/ 771 lb	246(9.68)	125(4.92)	170(6.69)		22(0.86)	BC16(0.62)		0.45kW	37kg/ 81.5 lb
LEP-30	500kg/ 1102 lb	296(11.6)	135(5.31)	198(7.79)	25(0.98)	28(1.10)	BB20(0.78)		0.57kW	60kg/ 132.0 lb
LEP-35	700kg/ 1543 lb	354(13.9)	150(5.90)	224(8.81)	27(1.06)	32(1.26)	BB22(0.86)		0.73kW	85kg/ 187.4 lb

*Power on rating 10%ED (Repeating cycle of power on 2 sec. and pause 20 sec.)

*The lifting capacity is indicated by a value that is a quarter of the maximum holding power.

*Use these magnets in such a way that workpieces are being fully held on the entire attractive face of the LEPR magnet to properly lift, and

LEPR should be centered for a stable lift.

*A 3-m long cable is included.

⚠ Precaution for use

Rust and scratches on the attractive face adversely affects the holding power. Inspect/check periodically and make repairs.

Model LEPR RECTIFIER FOR PERMANENT ELECTROMAGNETIC LIFMA

[Application]

It rectifies input from ACV supply source to DCV and outputs instantaneously current for attraction and reduction of magnetism to electro permanent magnet.

[Features]

- Compared with conventional models, it is made tremendously more compact.(decreased by 70% in comparison of volume)
- Maintenance free due to its non-contact type.

Model	Input	Output		Dimensions			Mass	Accessories
		Voltage	Current	Width	Depth	Height		
LEPR-MW210A	Single phase AC200V	DC160V	10A	220	175	290	6kg/ 13.2 lb	Operation switch (with cable 3m)