

## Data Sheet for EM174

The EM174 is a power supply unit designed for Eurorack mounting. It has two unregulated DC outputs; one of which is the LOGIC rail for powering control electronics and the other is the MOTOR rail for supplying drive to motors etc. There is an integral circuit that will only switch on the MOTOR rail when the LOGIC rail is on, to prevent a motor being driven whilst not being controlled. The two outputs are otherwise independent of each other ( the 0V lines not internally connected ).

The unit has a front panel fitted with a mains switch with its own neon lamp to show when the mains supply is switched on. There are also two LED's; a red one to indicate that the MOTOR supply is on and a yellow one to show that the LOGIC supply is on.

On the rear panel of the unit is a 32 way a & c DIN41612 type D connector (described below) and fuseholders for the mains input and the two output fuses.

Motor supply voltage	54V	off load
	46V	on load
Motor supply current	8A	max.
Logic supply voltage	20V	off load
	18V	on load
Logic supply current	2A	max.
Mains input voltage	110, 220 or 240 Vac 50 or 60 Hz	

The mains input voltage is selectable by a link on the PCB, accessible by removing the rear and top covers. **INCORRECT SELECTION WILL RESULT IN DAMAGE TO THE UNIT**

### Connections

Mains Supply	Live Input	2	a & c
	Live Switched Output	4	a & c
	Neutral	6	a & c
	Earth	10	a & c <b>THIS UNIT MUST BE EARTHED!</b>
MOTOR Output	+VMM Motor Supply	16 & 18	a & c
	0VMM Motor 0 volts	22 & 24	a & c
LOGIC Output	+VLL Logic Supply	28	a & c
	0VLL Logic 0 volts	32	a & c

### Fuses

Mains fuse @ 220 - 240 Vac	5A	anti-surge
Mains fuse @ 110 Vac	10A	anti-surge
Motor fuse	8A	quick-blow
Logic fuse	3.15A	quick-blow

### Dimensions

Height:	3U
Width:	42E
Length:	220 mm
Weight:	7.5 Kg

**We recommend the use of the MSB107  
motherboard to facilitate connection**