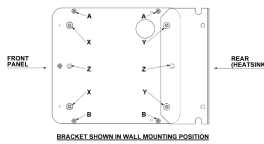


Betapack 4 is designed for indoor use only.



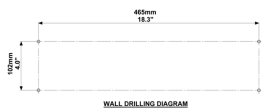
In a 19" Rack

Betapack 4 is supplied with side brackets fitted for rack mounting.

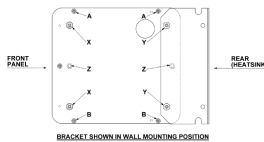


On a wall

Undo the four screws 'X' to remove the brackets, replace the screws in the holes for future use. Stand Betapack 4 on one end. Remove the two screws 'Y', fit the brackets as shown and replace screws 'Y'. Fit the other bracket on the other end.



The wall drilling positions are shown. **WARNING** Completely fit one bracket at a time. Removal of all four screws 'Y' at the same time can allow the heatsink assembly to fall out! Allow a minimum vertical spacing of 130mm between packs, and between packs and other equipment. A spacing of 180mm is recommended for ease of wiring and servicing.



For Portable Use

The 'Easicarry' Kit, consisting of a handle and four feet, is included with Betapack 4. To fit, remove the brackets. Fit the handle using the screws supplied and holes 'Z'. Fit the four feet to the other end using the holes 'X' and 'Y'.

When one or more Betapack 4 units are mounted in an enclosed rack, a fan **MUST** be fitted to ensure that adequate cool air is circulated. Up to three Betapack 4s may be stacked in free air.

Temperature	Output Levels (% of control)	Main display
<75°C	100%	normal
75°C → 80°C	100%	"075c"
80°C → 85°C	80%	"080c"
85°C → 90°C	60%	"085c"
90°C → 95°C	40%	"090c"
>95°C	0%	"hot"
sensor fault	100%	"err"

Ventilation

Betapack 4 is convection cooled with air flowing over the rear mounted heatsink.

Betapack 4 is convection cooled and includes a temperature sensor which monitors the internal temperature. If the temperature rises above the normal operating level the outputs are first reduced, then switched off altogether until the temperature falls back to a safe level.

The table shows how Betapack 4 will react under these conditions.

(Note: The temperature shown on the display will be the actual temperature not the rounded figures given in the table).

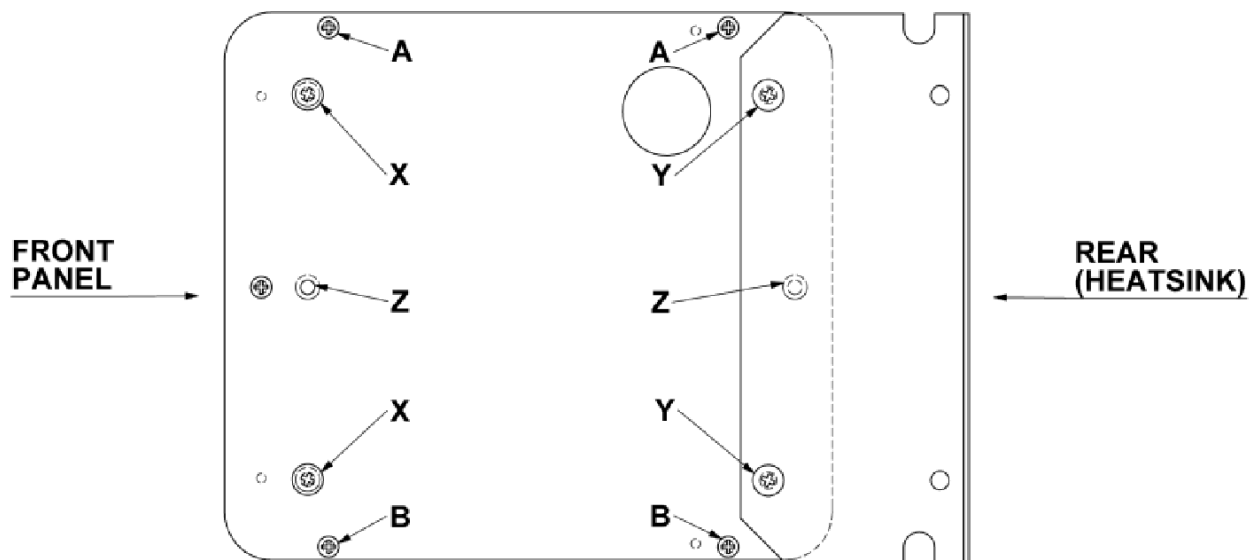
Removing the cover

Do not remove the covers without first completely disconnecting Betapack 4 from the mains supply.

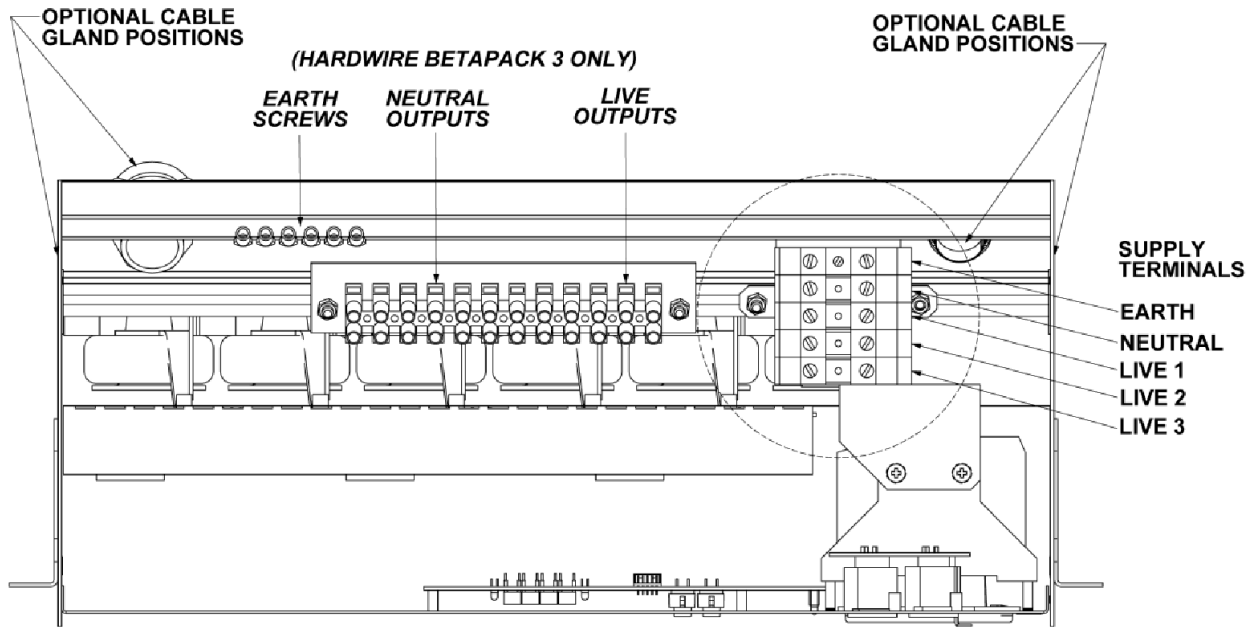
Isolate and disconnect Betapack 4 from the mains supply.

The mains supply terminals (and output terminals on the hardwire version) are located under the top cover. To remove the top cover, remove the four screws from the side plates marked "A" in the diagram below.

The Triacs (type BTA40-600A/B) are located under the bottom cover. To remove the bottom cover, remove the four screws from the side plates marked "B" in the diagram below.



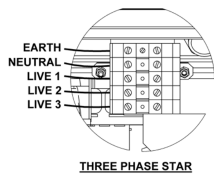
BRACKET SHOWN IN WALL MOUNTING POSITION



Connecting the mains

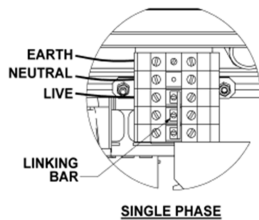
This product must be earthed.

- A separate isolator and secure mains earth connection are required.
- Phase to Neutral voltage must not exceed 255VAC.
- All wiring entering Betapack 4 must be rated to +85°C, H07RN-F cable is recommended.
- Cut outs are provided on the ends and rear for PG21 glands; one is supplied.
- Supply terminals will accept wire sizes between 1.5mm² and 16mm². Tightening torque is between 1.2Nm and 2.4Nm.
- Hardwire Live/Neutral output terminals will accept wire sizes up to 6mm².
- Hardwire Earth output ring-tags (blue crimp) will accept wire sizes between 1.0mm² and 2.5mm². These may be replaced if larger diameter wiring is installed.



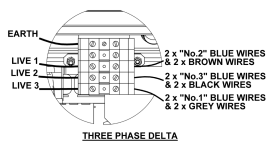
Three phase

Betapack 4 is supplied configured for three-phase star operation as shown.



Single phase

For single-phase operation, fit the supplied linking bar between the L1, L2 and L3 terminals as shown.



Three phase delta

For three-phase delta operation, the 6 neutral wires must be removed from the terminal block, and the crimped ferrules must be cut off. Strip the ends of these 6 wires, delta, and reconnect as shown.