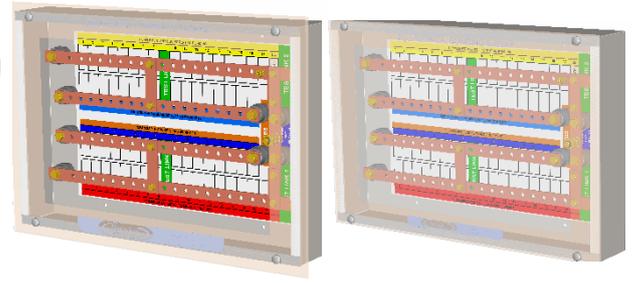
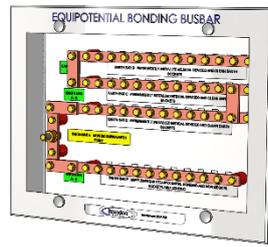


Product Description

Medipower™ Medical IT Equipotential Bonding Busbar

Brandon Medical range of Medipower Earth Equipotential Bonding Bars (EBB) are suitable for all Group 1 and Group 2 medical locations. Brandon Medical's EBBs adhere to the IET Wiring Regulations 18th edition protecting both patients and clinicians in healthcare environments.



Product Features

General Product Overview

Equipotential earth bonding is the practice of connecting equipment to a safe common earth to minimise the risk of significant touch voltages being generated in the vicinity of vulnerable patients.

The EBB provides an earth equipotential zone within the clinical area, where all extraneous metal work and sockets within the patient area are earthed back to a common point with dedicated earth paths. This also includes earth equipotential sockets (Group 1 location 1 per patient area, Group 2 location a minimum of 4 but no less than 25% of the number of medical IPS sockets).

Designed and manufactured by Brandon Medical, Medipower EBB complement our extensive range of Medical IT Power Supplies (IPS) and Uninterruptible Power Supply (UPS) equipment. The EBBs are available in different sizes allowing a greater quantity of protective earth conductors to be connected to suit different room applications. All of Brandon Medical's EBBs are fully compliant with former MEIGaN requirements.

Brandon's EBBs are available in flush or surface mounting options. They are simple to install with easily removable links in order to support recognised test protocols. The coloured labelling system allows for ease of identification of all the system earths connected to the EBB.

EBB Locations

Clinical areas which are classified as group 1 and 2 in accordance to HD60364-7-710 and BS7671:2018 and HTM06_01 require enhanced earthing philosophies. These areas include operating theatres and associated anaesthetic rooms, imaging suites, all critical care wards, recovery areas and endoscopy theatres

Examples of connected equipment	Best Practices
<ul style="list-style-type: none"> Warning Lights Injectors Water Baths Contrast Media Warming Equipment Viewing Boxes Power Drug Cabinets Work surfaces Heating pipes & radiators Water tubes Ceiling mounted hardware Trunking & cable trays 	<ol style="list-style-type: none"> 1) The mains supply protective conductor entering the location shall be terminated at the ERB. 2) The EBB shall be close to the mains supply isolator except with MR units. 3) The EBB shall be installed in an accessible position, to facilitate easy visual inspection and testing, not higher than 1.8m and not lower than 1m measured from the floor. 4) Circuit protection and potential equalisation conductors shall have crimped connections. 5) All circuit protective conductors shall be identified, and a list of connections made, a copy of which shall be available in the EBB cabinet. Equipotential conductors from the socket-outlets shall be identified as either 'Medical Location of Group 1' or 'Medical location of Group 2' as appropriate. 6) All installed equipment shall be earthed to the EBB if there are any conductive surfaces that are accessible to either patient or staff. 7) All non-powered equipment with metal surfaces shall be similarly bonded to the EBB.

Installation Requirements

EBBs should be mounted either in or adjacent to the medical location in which they serve. They shall be mounted in an accessible position. The EBB comes with a choice of flush and surface mount front covers to allow for aesthetic installation within a clinical area. Earth cable runs must be kept as short as possible and be less than 0.2 Ohm between any two extraneous conductive points and less than 0.1 Ohm between any point and the EBB. Cable runs of up to 33m can be achieved using 6mm² earth cable and 21m using 4mm² cable (larger sizes are unsuitable for earthing socket terminals).

Standard	Description
HD 60364-7-710:2012/AC:2013	Safety of electrical installations in medical locations.
BS 7671:2018	Requirements for Electrical Installations 18 th edition
BS7641: 2018 Section 710	Emphasises that a hospital electrical distribution system should be designed to provide security of supply and flexibility and safety in operation.
IET Guide to Electrical Installation in Medical Locations	Guide to assist the reader when working through the requirements for medical locations
HTM06-01:2017	Health Technical Memorandum 06-01, Part A: 'Electrical Services Supply and Distribution'.

Images are representative of example system only - Mount styles vary depending on model
 Please refer to drawing layout for model appearance information
 Please contact one of our Sales Team to discuss your requirements further
 Information subject to change without notice



ELMFIELD ROAD | MORLEY | LEEDS | LS27 0EL | WEST YORKSHIRE | UNITED KINGDOM. T: +44 113 277 7393 / 0845 1243 666 F: +44 113 272 8844 / 0845 1243 667
 E: enquiries@brandon-medical.com W: www.brandon-medical.com
 Brandon Medical Company Limited. Registered in England & Wales No. 2827189. VAT No. GB734 591421. A subsidiary of Brandon Group Limited.

Medipower™ Medical IT Equipotential Bonding Busbar

Earth Reference Bars for Group 1 and Group 2 medical locations



Model Number	Description
OTMPERB200FF	GROUP 1 EARTH BONDING BAR FLUSH OR SURFACE MOUNT

Technical & Performance Information:

Model No	OTMPERB200FF
Type	Non-Ferrous
Mounting Type	Flush or Surface
Nominal Rating	200A
Temperature Increase under fault	23 °C (after 16 seconds at 660A fault current)
Facia Size h x w x d	260 x 350 x 56
Back Box Size h x w x d	230 x 320 x 50
Orientation	Landscape
Mass	2 kg
Material	Aluminium / Copper / Brass / Polycarbonate / PVC
Area Used	Single Patient
Main Bar Cross Section	48 mm ²
Main Incoming Terminal	1 x 8mm
Colour Indicator Labels	✓
Easily Removable Links	✓
Reconfigurable to Suit Room and Application	✓

Terminal Details		
ID	Equipment Type:	Terminal Size: Single Patient Area
Bar A	Main Earth from Distribution Board	1 x 8mm
Bar B	Permanently Installed Medical Devices & Clean Earth Sockets	11 x 5mm
Bar C		10 x 5mm
Bar D		10 x 5mm
Bar E	Supplementary Equipotential Bonding & Non-Medical Sockets & Lighting	10 x 5mm

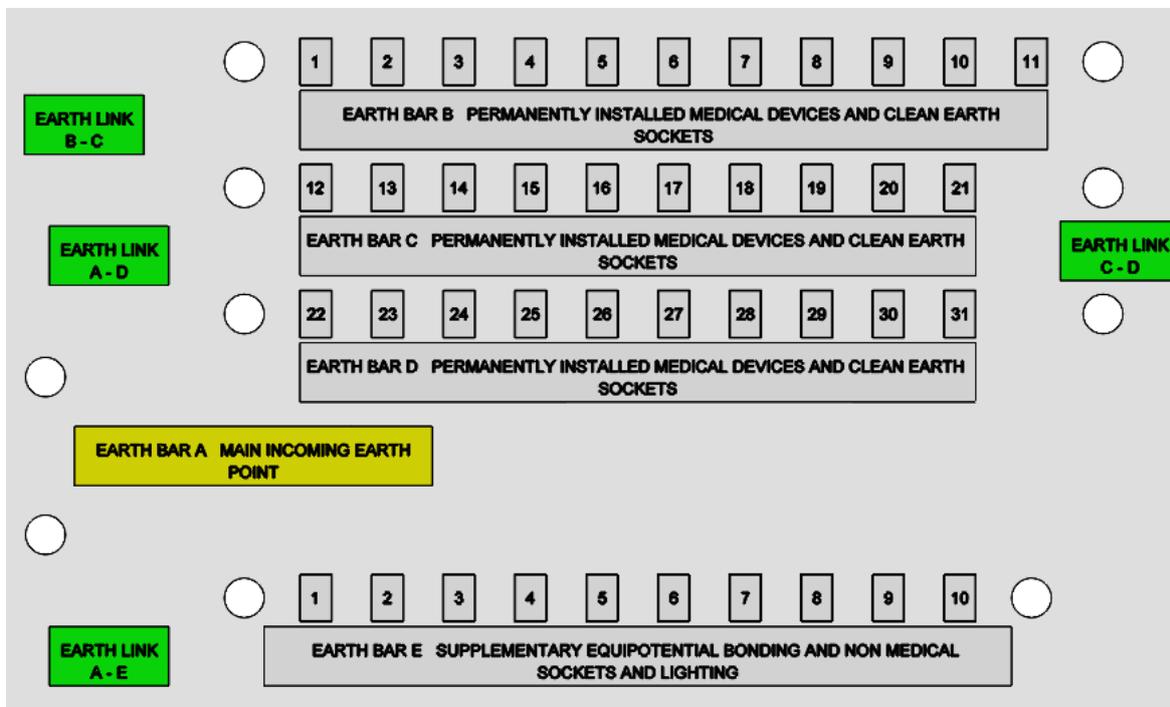


Figure 1 EBB200A Identification

For further information refer to Layout Drawing BSD_EBB [15029]

Images are representative of example system only - Mount styles vary depending on model

Please refer to drawing layout for model appearance information

Please contact one of our Sales Team to discuss your requirements further

Information subject to change without notice



Medipower™ Medical IT Equipotential Bonding Busbar

Earth Reference Bars for Group 1 and Group 2 medical locations



Model Number	Description
OTMPERB320FF	GROUP 2 EARTH BONDING BAR FLUSH MOUNT
OTMPERB320NF	GROUP 2 EARTH BONDING BAR NON-FERROUS FLUSH MOUNT
OTMPERB320FS	GROUP 2 EARTH BONDING BAR SURFACE MOUNT
OTMPERB320NF	GROUP 2 EARTH BONDING BAR NON-FERROUS SURFACE MOUNT

Technical & Performance Information:

Model No	OTMPERB320FF	OTMPERB320NF	OTMPERB320FS	OTMPERB320NS
Type	Ferrous	Non-Ferrous	Ferrous	Non-Ferrous
Mounting Type	Flush		Surface	
Nominal Rating	320A			
Temperature increase under fault	6.1 °C (after 10 seconds at 660A fault current)			
Facia Size h x w x d	380 x 550 x 93		355 x 525 x 93	
Back Box Size h x w x d	350 x 520 x 80		350 x 520 x 80	
Orientation	Landscape		Landscape	
Mass (approx) kg	8	7.2	8	7.2
Material	Steel / Brass / Copper / Polycarbonate	Aluminium / Brass / Copper / Polycarbonate	Steel / Brass / Copper / Polycarbonate	Aluminium / Brass / Copper / Polycarbonate
Main Bar Cross Section	60 mm ²			
Main Incoming Terminal	1 x 10mm			
Colour Indicator Labels	✓			
Easily Removable Links	✓			
Reconfigurable to Suit Room and Application	✓			

Terminal Details			
ID	Equipment Type:	Terminal Size:	
		Single Patient Area	Multi Patient Area
Bar A	Main Earth from Distribution Board	1 x 10mm	1 x 10mm
Bar B	Supplementary Equipotential Bonding & Non-Medical Sockets & Lighting	17 x 6mm	17 x 6mm
Bar C	Permanently Installed Medical Devices	18 x 6mm	18 x 6mm
Bar D	Clean Earth Sockets and Equipment	16 x 6mm	16 x 6mm
Bar E	Lighting and Non-Medical Equipment 13A Sockets	16 x 6mm	16 x 6mm

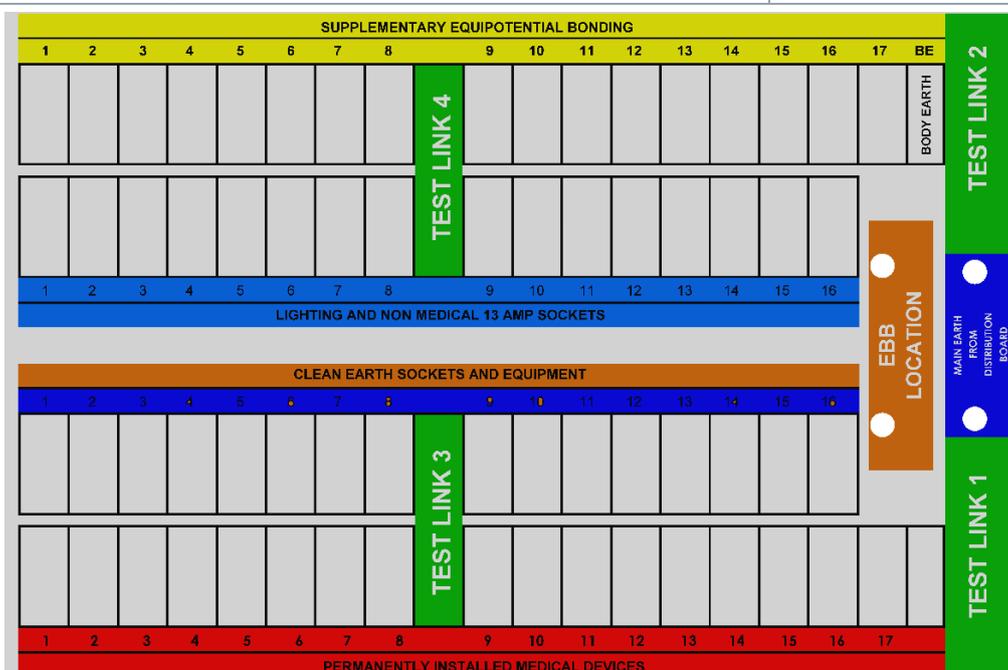


Figure 2 EBB320A Identification

For further information refer to Layout Drawing BSD_EBB [15029]

Images are representative of example system only - Mount styles vary depending on model
 Please refer to drawing layout for model appearance information
 Please contact one of our Sales Team to discuss your requirements further
 Information subject to change without notice



ELMFIELD ROAD | MORLEY | LEEDS | LS27 0EL | WEST YORKSHIRE | UNITED KINGDOM. T: +44 113 277 7393 / 0845 1243 666 F: +44 113 272 8844 / 0845 1243 667
 E: enquiries@brandon-medical.com W: www.brandon-medical.com
 Brandon Medical Company Limited. Registered in England & Wales No. 2827189. VAT No. GB734 591421. A subsidiary of Brandon Group Limited.

Medipower™ Medical IT Equipotential Bonding Busbar

Earth Reference Bars for Group 1 and Group 2 medical locations



Model Number	Description
OTMPERB180SNS	180A EBB SINGLE BAR SURFACE MOUNT
OTMPERB180SNF	180A EBB SINGLE BAR FLUSH MOUNT
OTMPERB180DNS	180A EBB DOUBLE BAR SURFACE MOUNT
OTMPERB180DNF	180A EBB DOUBLE BAR FLUSH MOUNT

Technical & Performance Information:

Model No	OTMPERB180SNS	OTMPERB180DNS	OTMPERB180SNF	OTMPERB180DNF
Type	Single Bar	Double Bar	Single Bar	Double Bar
Mounting Type	Surface		Flush	
Nominal Rating	180A			
Temperature increase	1.3 °C (after 20 seconds at 500A fault current)			
Facia Size H x W x D	187 x 252 x 65		205 x 270 x 65	
Back Box Size H x W x D	185 x 250 x 55		185 x 250 x 55	
Orientation	Landscape		Landscape	
Mass (approx) kg	1.4	2.0	1.4	2.0
Material	Aluminium / Brass / Copper / Polycarbonate			
Area Used	Single Patient	Single/Multi Patient	Single Patient	Single/Multi Patient
Main Bar Cross Section	150mm ²			
Main Incoming Terminal	1 x 6mm			
Colour Indicator Labels	✓			
Easily Removable Links	✓			
Reconfigurable to Suit Room and Application	✓			

Terminal Details			Single Bar
ID	Equipment Type:	Terminal Size: Single Patient Area	
Bar A	Main Earth from Distribution Board	1 x 6mm	
Bar B	Supplementary Equipotential Bonding & Non-Medical Sockets & Lighting	18 x 6mm	

Terminal Details			Double Bar
ID	Equipment Type:	Terminal Size: Single Patient Area	
Bar A	Main Earth from Distribution Board	1 x 6mm	
Bar B	Supplementary Equipotential Bonding & Non-Medical Sockets & Lighting	18 x 6mm	
Bar C	Supplementary Equipotential Bonding & Non-Medical Sockets & Lighting	18 x 6mm	

For further information refer to Layout Drawing BSD_EBB [15029]

Images are representative of example system only - Mount styles vary depending on model
 Please refer to drawing layout for model appearance information
 Please contact one of our Sales Team to discuss your requirements further
 Information subject to change without notice

