Technical data

Some of the toughest energy regulations ever seen in the UK are now in force. Part L2 of the Building Regulations introduced in England and Wales in 2006 addresses the conservation of energy in Public, Commercial and Industrial buildings, setting high standards for architects, engineers and contractors to create a more sustainable built environment.

For electrical distribution applications

For Three phase applications, the EBMMPCT250 employs a multi-function meter to measure the electrical parameters on the supplies to TPN distribution boards. It can also be used to meter single-phase loads.

The unit is supplied complete with CT's and wiring terminals. Suitable for applications up to 250A with a pulsed output for kWh, the meter also monitors for display, other parameters, including line voltage and current. The voltage reference connection within the associated distribution board is facilitated on the back of one outgoing MCB, maintaining the full capacity of outgoing circuits.

Designed to provide a solution for separate "small power" and "lighting" applications, the unit is supplied complete with Incomer, two sets of CTs and two multifunction meters.

Type B meter pack assemblies

- Meterpacks for standard type B standard distribution boards
- 120A direct connected or CT fed versions available for 125/250A applications
- Aids compliance with part L2 of building regulations in England and Wales
- 120A version is OFGEM certified and suitable for billing applications where required – MID certified CT fed version also available for 125/250A billing applications
- Choice of pulsed output kWh information or Modbus RS 485

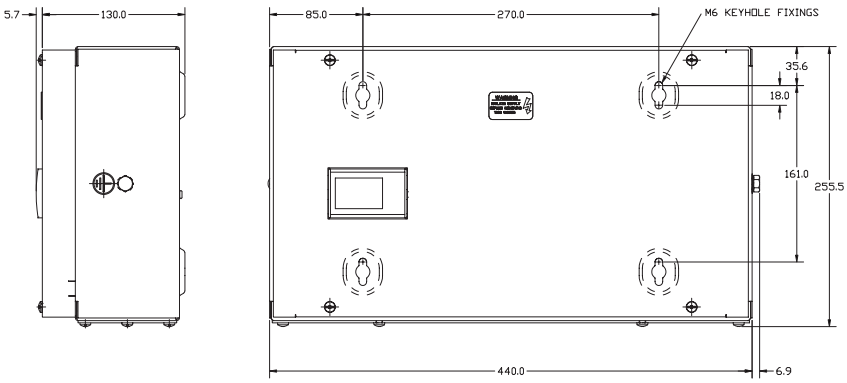
Description	Rating (A)	Eaton list number
Type B meterpack assemblies		
Meter pack 125/250A multifunction MID compliant, Pulsed output	250	**EBMMPCT250**
Meter pack 125/250A multifunction MID compliant, Modbus	250	**EBMMPCT250M**
Meter pack 125/250A multifunction MID certified, (billing applications)	250	**EBMMPCT250MID**
Meter pack 120A OFGEM certified, Pulsed ouput	120	**EBMMPDC120**
Type B Double meter pack assemblies with switch disconnector incomer		
Double meter pack 125A multifunction, Pulsed output	125	**EBMMPSL125**
Double Meter pack 125A multifunction, Modbus	125	**EBMMPSL125M**
Double meter pack 250A multifunction, Pulsed output	250	**EBMMPSL250**
Double meter pack 250A multifunction, Modbus	250	**EBMMPSL250M**

EBMMPSL250

250A split load meter pack
(Shown fitted below two standard Memshield 3 type B boards)

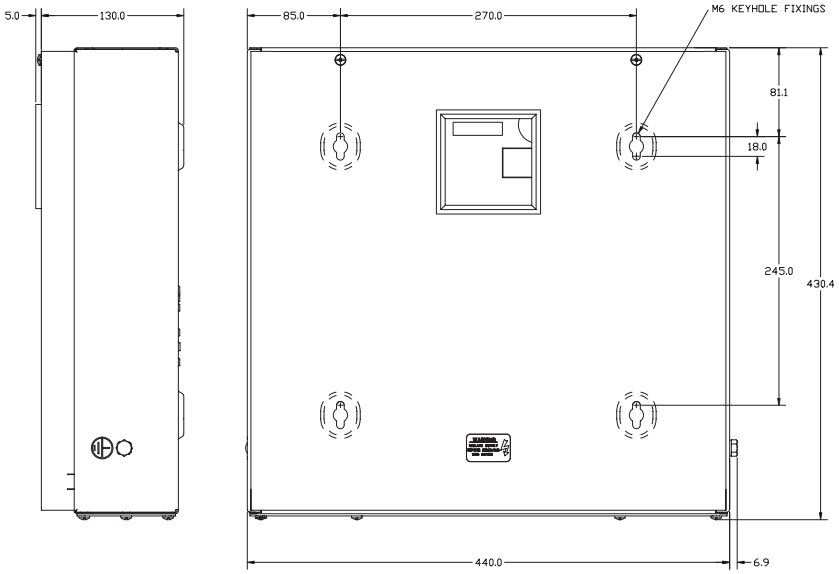
EBMMPCT250

EBMMPCT250

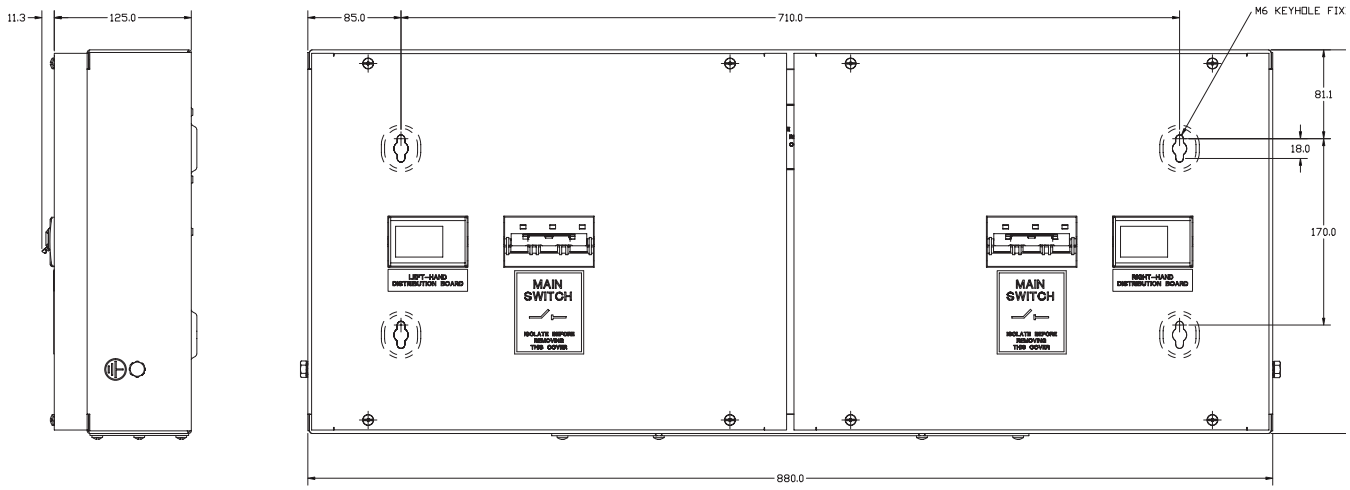


Powering Business Worldwide

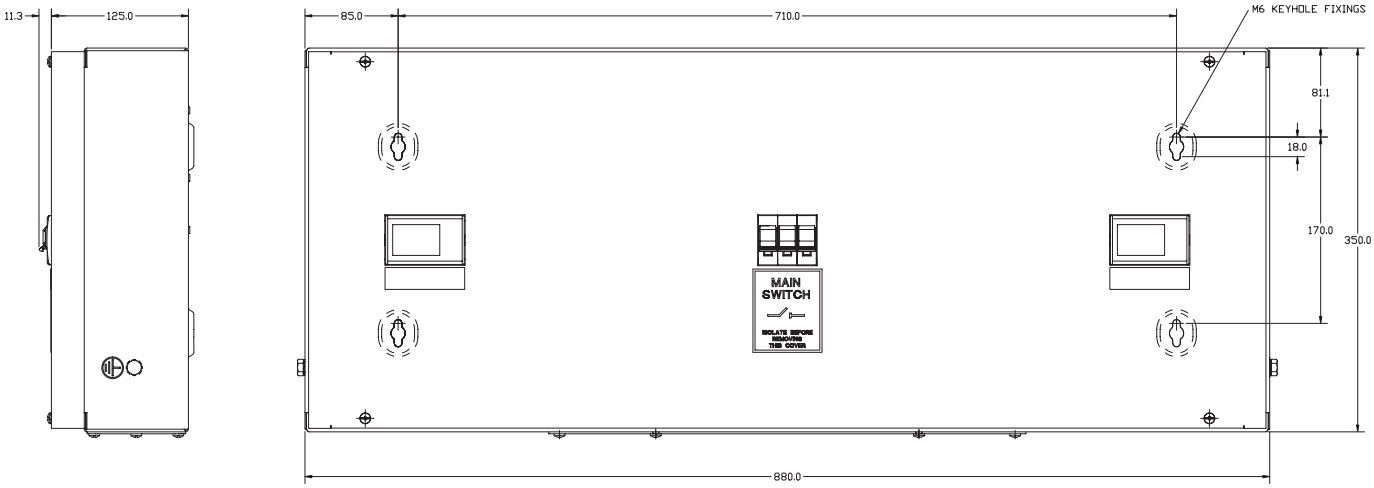
EMMPCD100



EMMPSL250



EMMPSL125



Eaton's unique solution uses smart meter technology to monitor embedded transducers in a high integrity shrouded 200A busbar assembly. This solution provides independent readings of each section of the board as net values, as well as providing information of the total demand on the board – all from a single smart meter.

A choice of two meter options provide either two pulsed output signals for kWh information, or Modbus RS 485 communication.

Both meters display other useful parameters, including line voltage and current for each section of the board, plus power factor and max demand information. Through the Modbus RS 485 version meter these parameters can also be accessed remotely.

Eaton's new smart metered board is the same width of a standard TPN board (440mm) and is available in four sizes up to 24 TPN ways. The metering elements and 200A incomer switch disconnector are preinstalled and tested, allowing the installer to focus on the outgoing circuits alone.

- Calculates the net values of each section of the distribution board without further external calculations
- Meter transducers within busbar profile reduces overall board size, saving valuable space
- Meter and transducers are matched to ensure meter accuracy and MID compliance

Type B meter pack assemblies

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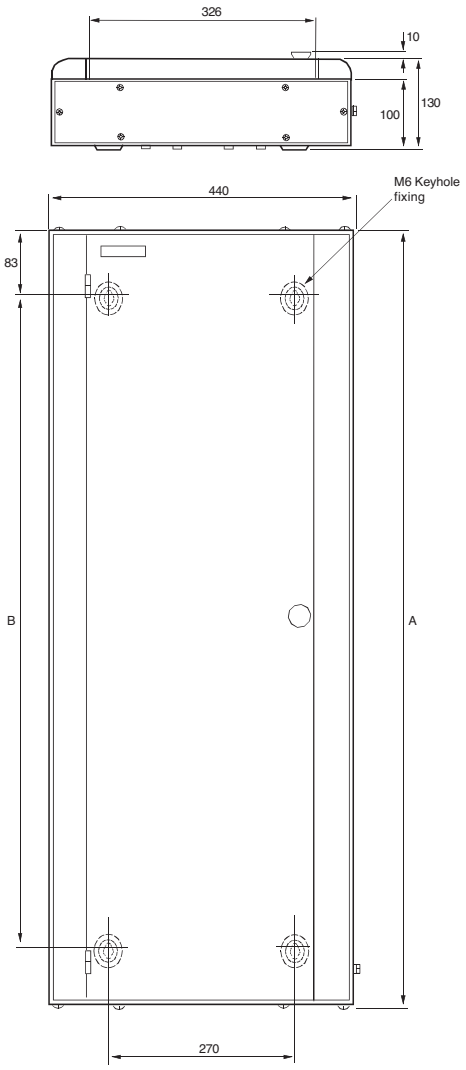
Description	Configuration	Bottom section outgoing ways	Top section outgoing ways	Eaton list number
200A TPN type B distribution board				
200A type B, TPN Board with integrated Pulsed output meter	6 + 4	6	4	**EBMSL642M**
200A type B, TPN Board with integrated Modbus meter	6 + 4	6	4	**EBMSL642MB**
200A type B, TPN Board with integrated Pulsed output meter	8 + 6	8	6	**EBMSL862M**
200A type B, TPN Board with integrated Modbus meter	8 + 6	8	6	**EBMSL862MB**
200A type B, TPN Board with integrated Pulsed output meter	10 + 8	10	8	**EBMSL1082M**
200A type B, TPN Board with integrated Modbus meter	10 + 8	10	8	**EBMSL1082MB**
200A type B, TPN Board with integrated Pulsed output meter	14 + 10	14	10	**EBMSL14102M**
200A type B, TPN Board with integrated Modbus meter	14 + 10	14	10	**EBMSL14102MB**



Eaton list number	A (mm)	B (mm)
EBMSL642M	1130	946
EBMSL642MB	1130	946
EBMSL862M	1236	1052
EBMSL862MB	1236	1052
EBMSL1082M	1342	1158
EBMSL1082MB	1342	1158
EBMSL14102M	1501	1317
EBMSL14102MB	1501	1317

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