



## WALL-MOUNTED ELECTRICAL DISTRIBUTION UP TO 800A

# OUR CUSTOMER CARE COMMITMENTS



## Quality is Guaranteed

All products supplied from this Catalogue carry a guarantee against defects in materials and workmanship for a period of 12 months from date of purchase as standard.

## Quality is Accredited

Terasaki has ISO 9001 accreditation for the manufacture, sale and distribution of all products featured in this Catalogue.

## Technical Support is Free

We offer free technical support and application software to all customers. This could range from selecting a product for an unusual application through to carrying out a protection study.



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Terasaki is a world class specialist in innovative circuit protection, control and system products for electrical energy distribution. We supply low-voltage circuit breakers for industrial, marine and commercial building projects.



## WALL-MOUNTED ELECTRICAL DISTRIBUTION UP TO 800A

### SYSTEM CONCEPT

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### SAFETY

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### PRO-DB DISTRIBUTION BOARDS

Pro-DB Distribution Boards – 125A Selection Guide  
 Pro-DB Distribution Boards – 250A Selection Guide  
 Flowchart. Selection of a supply connection kit for distribution boards to comply with IET Wiring Regulations 17th Edition

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Specifications  
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### PRO-PANEL 2 PANELBOARDS

Pro-Panel 2 Panelboards – 400A Selection Guide  
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 Pro-Panel 2 Panelboards – 800A MCCB Incomer Selection Guide

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Specifications  
 Dimensions

### Other Terasaki Products:



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## System Concept

# Wall-Mounted Electrical Distribution Up to 800A

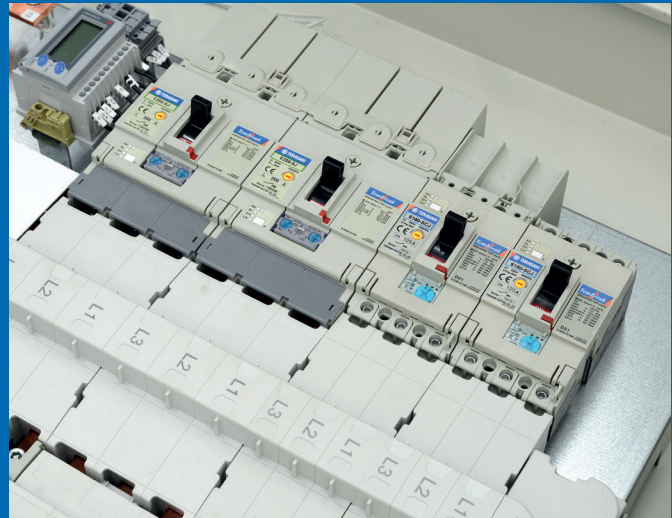


Pro-DB Distribution Boards 125A & 250A



Pro-Panel 2 Panelboards 400A & 800A





This catalogue introduces a new system of wall-mounted distribution equipment from Terasaki. The range consists of standard off-the-shelf components which are modular and flexible so that you can build up a complete system which is ready for mounting and wiring.

Metering kits, dual metering kits, outgoing metering boxes and lots of Residual Current (RCD) protection options make it easy for you comply with the installation regulations:

**BS 7671: 2008, Amendment 2011**  
**("The IEE Wiring Regulations").**  
**Part L2 The Building Regulations 2000**  
**(2006 edition)**

Our guide on page 6 show you how to meet the regulations for fire protection with our unique CBR incomer (circuit breaker with residual protection)

### **AND...**

We present a handy selection flowchart which helps you determine which type of supply connection kit to use with a Pro-DB distribution board to best meet the wiring regulations - see page 16





## Safety

# 250A Distribution Board with Integrated Residual Current Protection!

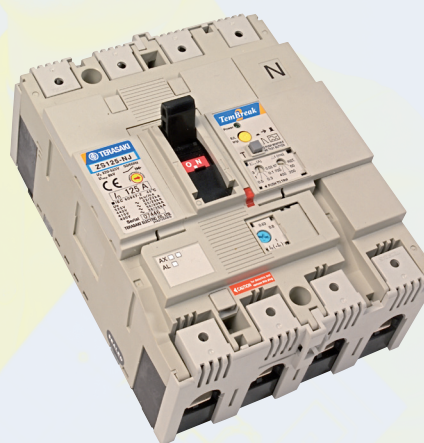
### “What is a CBR?”

#### Integral CBR -

“circuit breakers... which incorporate the residual current function as an integrated feature”:

#### IEC 60947-2 Annex B.

In other words a CBR is the moulded-case circuit breaker equivalent of a DIN-modular RCBO - it includes overload, short-circuit and residual current protection inside a single device.



### How can I use a CBR to protect from fire?

Because Terasaki’s CBR has user-adjustable residual current sensitivity including 30mA (for electric shock protection) and 300mA (for fire protection).

**Regulation 422 “RCD set to 300mA”**



### How could a CBR give me a cost advantage?

1 - If the CBR is used as the supply connection device and is set to 30mA, RCBOs are not required on outgoing load circuits for electric shock protection (unless discrimination is required).

The residual current protection provided by the supply connection device covers all load circuits. MCBs may be used to protect load circuits and the installation will still meet the requirements of regulation 411.3.3 for electric shock protection “RCD”

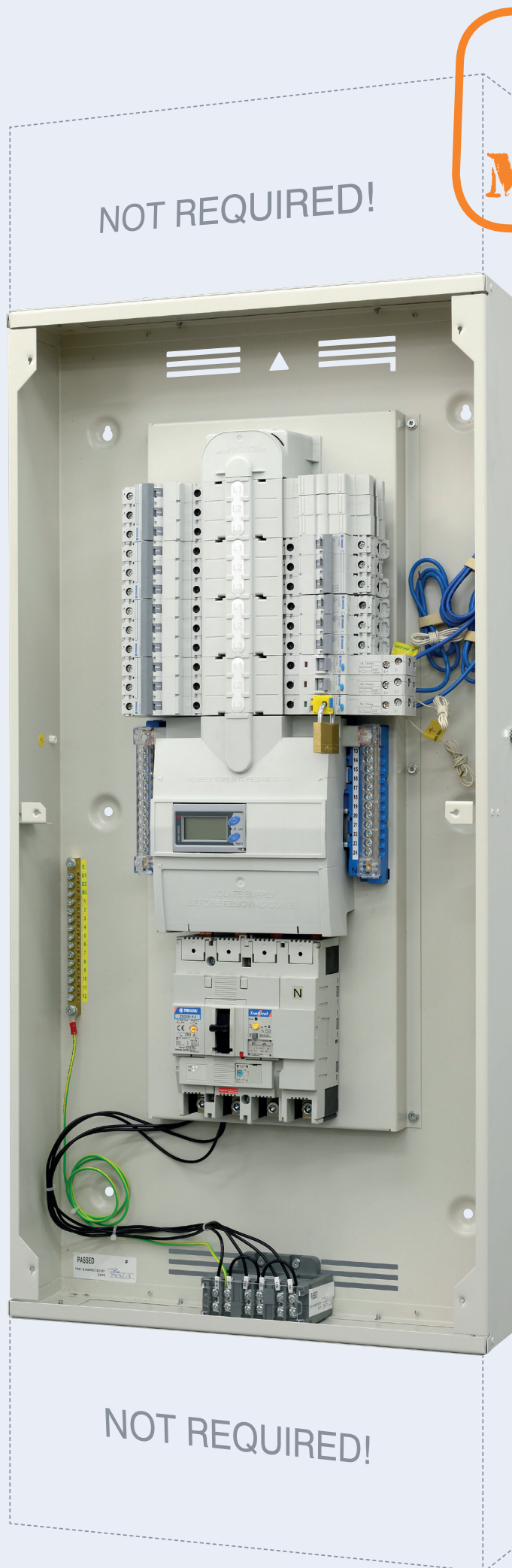
2. - Because fire protection, if required by regulation 422 can be provided by an integral CBR without extension boxes, CTs or relays.



Extension box  
for incoming  
RCCB protection

Metering and  
RCD protection  
are integral to the  
PRO-DB 250A  
Distribution Board

Extension box  
for metering kit

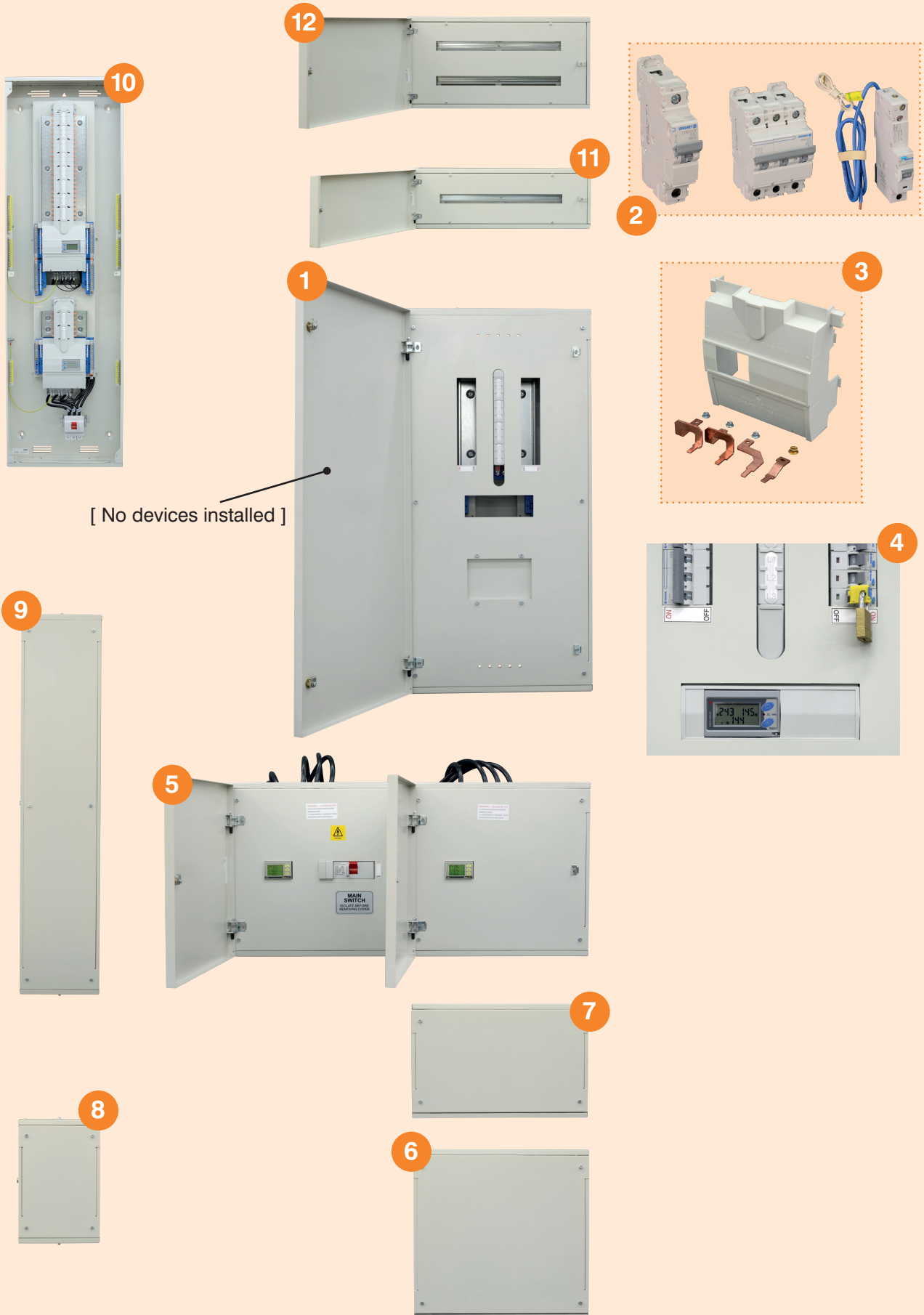


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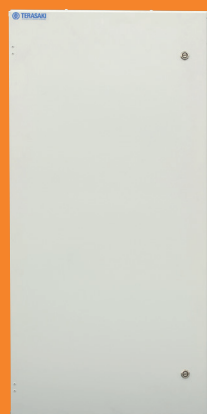
# PRO-DB Distribution Boards





Pro-DB 125A and 250A distribution boards are wall-mounted electrical distribution systems. Each distribution unit can accept a three-phase incoming electrical supply. The electrical supply can be connected through a Switch-Disconnecter, Circuit Breaker, RCCB, Contactor or Direct Connection Kit. A combination of single-phase and three-phase loads can be connected to the outgoing terminals.

The neutral conductor can be isolated by the supply connection device or connected directly to the neutral busbar. Protection from exposed electrical conductors is provided by a cover plate, through which the supply and loads can be manually switched. Access to the switches is by opening the hinged door which is optionally lockable.



[Door Closed]



[Door Open]



[Cover Plate]



[Internal]

Key	Description	Comment
1	Enclosed Distribution Unit	125A or 250A
2	Load Protection	TD3 MCBs and RCBOs
3	Supply Connection Kit	For 125A: TD3 MS modular switch, TD3 RCCB or contactor* For 250A: TemBreak2 MCCB, CBR or switch-disconnector or contactor*
4	Integral Metering Kit	Fits inside the distribution unit as shown
5	Single Supply, Double Load Metering Kit	Part L2 metering solution. Divide one incoming electrical supply through two side-by-side distribution units with individual metering.
6	Supply Cable Box, Large	
7	Supply Cable Box, Small	
8	Corner Filler Box	Allows an assembly with side extension boxes to be finished in a regular shape.
9	Side Extension Box	
10	Distribution Board with Integral Double Load Metering	Part L2 metering solution. A single enclosure with two busbar systems one above the other, individually metered.
11	16 Module Extension Box for DIN Modular Devices	For example: Surge protection, modular contactors.
12	32 Module Extension Box for DIN Modular Devices	For example: Surge protection, modular contactors.

\* Contactor version comes with a separate enclosure.

The user assembles the components of the Pro-DB system, usually at the place of installation (on-site).

A basic distribution system consists of an enclosed distribution unit (1) or (10), a supply connection kit (3) and load protection devices (2). Adding accessories can allow metering and communication, extra space for cables and a mounting system for DIN modular controllers.



# PRO-DB Distribution Boards – 125A Selection Guide

1

## 125A – Distribution Boards

### Choose an enclosed distribution unit.

These are classified by the number of three-phase load circuits they can serve (“18 ways” means 18 three-phase circuits or 54 single-phase circuits or a combination of both). Select an enclosed distribution unit with enough capacity for the known loads to be connected plus spare capacity for connecting unknown circuits in future. Spare spaces for future circuits can be made safe by covering them with optional blanking pieces.



Key	125A Enclosed Distribution Board	Code
	4 Way 125A DB	TB12504C
1	6 Way 125A DB	TB12506C
	8 Way 125A DB	TB12508C
	12 Way 125A DB	TB12512C
	16 Way 125A DB	TB12516C
	18 Way 125A DB	TB12518C
	24 Way 125A DB	TB12524C
2	4/16 Way Split Lighting Power	TBS416C
	8/12 Way Split Lighting Power	TBS812C

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## 125A – Connection Kits

### Select a supply connection kit. Kit includes copper links, device and cover.

Refer to selection flowchart on page 16



Key	Supply Connection Kits	Code
	100A 3P SW Disc Incomer 125A DB	SWD1003C
	100A 4P SW Disc Incomer 125A DB	SWD1004C
	125A 3P SW Disc Incomer 125A DB	SWD1253C
	125A 4P SW Disc Incomer 125A DB	SWD1254C
2	63A 4P Contactor Incomer 125A DB*	CON0634C
	100A 4P Contactor Incomer 125A DB*	CON1004C
	125A Direct Connection Kit 125A DB	DIR125X
1	63A 4P 30mA RCCB Incomer 125A DB	R30063C
	100A 4P 30mA RCCB Incomer 125A DB	R30100C
	100A 4P 300mA RCCB Incomer 125A DB	R300100C
	100A 3P 300mA TD – Time Delay RCCB Incomer	R300D100C

\*includes extension box and switch-disconnector.

Select a suitable load protection.

10kA MCBs – Single Pole			
Current Rating	B Curve Cat. Number	C Curve Cat. Number	D Curve Cat. Number
0.5A			102035
1A			101908
2A			101915
3A		101267	101922
4A		101274	101939
6A	100901	101281	101946
10A	100918	101298	101953
16A	100925	101304	101960
20A	100932	101311	101977
25A	100949	101328	101984
32A	100956	101335	101991
40A	100963	101342	102004
50A	100970	101359	102011
63A	100987	101366	102028

10kA MCBs – Triple Pole			
Current Rating	B Curve Cat. Number	C Curve Cat. Number	D Curve Cat. Number
0.5A			102318
1A			102189
2A			102196
3A		101571	102202
4A		101588	102219
6A	101083	101595	102226
10A	101090	101601	102233
16A	101106	101618	102240
20A	101113	101625	102257
25A	101120	101632	102264
32A	101137	101649	102271
40A	101144	101656	102288
50A	101151	101663	102295
63A	101168	101670	102301

10kA RCBOs – Single Pole			
Current Rating	Sensitivity	B Curve Cat. Number	C Curve Cat. Number
6A	30mA	103674	103742
10A	30mA	103681	103759
16A	30mA	103698	103766
20A	30mA	103704	103773
25A	30mA	103711	103780
32A	30mA	103728	103797
40A	30mA	103735	103803

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125A – Accessories

Select the required accessories.



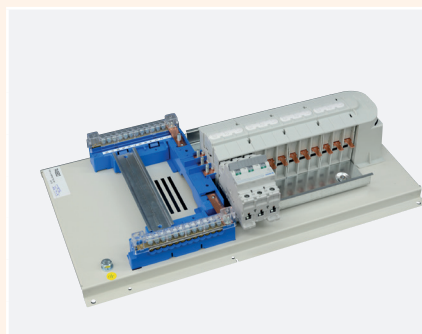
Integral Supply Metering Kits		Code
	Multifunction Meter Kit Pulsed 125A	PMM1
	Multifunction Meter Kit Modbus 125A	MMM1
	KWH Pulsed Meter Kit 125A	KPM1



Part L2 Solution: Single Supply, Double Load Metering Kit		Code
	Dual Pulsed Multimeter Kit 125A DB	PMM125C
	Dual Modbus Multimeter Kit 125A DB	MMM125C

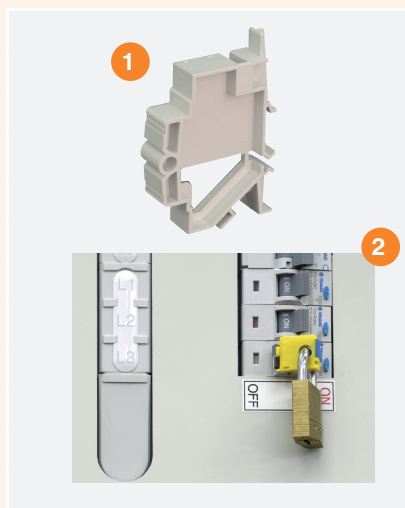


Key	Extension Boxes	Code
	1 Row 16 MOD Din Extension Box 125A DB	TB125DINX16C
1	2 Row 32 MOD Din Extension Box 125A DB	TB125DINX32C
	1 Row 16 MOD Din Ext Box Glazed 125A DB	TB125DINXG16
	2 Row 32 MOD Din Ext Box Glazed 125A DB	TB125DINXG32
	Small Cable Spreader Box 125A DB	TBCABXS125C
2	Large Cable Spreader Box 125A DB	TBCABXL125C
	Door Kit for Small Cable Box 125 & 250A	TBCABXSDRC
	Door Kit for Large Cable Box 125 & 250A	TBCABXLDRC
	4 Way Half-Width Ext Box 125A DB	TBHX12504C
	6 Way Half-Width side Ext Box 125A DB	TBHX12506C
	8 Way Half-Width side Ext Box 125A DB	TBHX12508C
	12 Way Half-Width side Ext Box 125A DB	TBHX12512C
	16 Way Half-Width side Ext Box 125A DB	TBHX12516C
	Half-Width Filler Box 125 DB	TBFB125C



125A Busbar Assemblies*		Code
	4 Way 125A Busbar Assembly	TB12504PA
	6 Way 125A Busbar Assembly	TB12506PA
	8 Way 125A Busbar Assembly	TB12508PA
	12 Way 125A Busbar Assembly	TB12512PA
	16 Way 125A Busbar Assembly	TB12516PA
	18 Way 125A Busbar Assembly	TB12518PA
	24 Way 125A Busbar Assembly	TB12524PA

\* includes mounting plate and neutral bars.



Key	Accessories	Code
	Meter Data Logger TCP/IP	TACCDATA
	Door Locking Kit for Type B DB 125 & 250A	TBACCLOCK
	Spare Label Pack 125 & 250A	TBACCLAB
	Single Phasing Kit for 250A DB	TBACC2501PK
	Touch-up Paint	TBACCPAINT
1	1P Busbar Blank	TBACCBLANK
	Mechanical Connection Kit Horizontal/Vertical	TBACCCONN
	Top Tap Off Kit for 125 & 250A	TBACCTOPTAP
	TP Earth Bar Kit High Integrity, 2 x 15 terminals	TBACCCEARKIT
	TP Earth Bar Kit Clean, 2 x 15 terminals	TBACCCEARKIT
2	Padlock Device for TD3	TD3LOK

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# PRO-DB Distribution Boards – 250A Selection Guide

1

## 250A – Distribution Boards

### Choose an enclosed distribution unit.

These are classified by the number of three-phase load circuits they can serve (“18 ways” means 18 three-phase circuits or 54 single-phase circuits or a combination of both). Select an enclosed distribution unit with enough capacity for the known loads to be connected plus spare capacity for connecting unknown circuits in future. Spare spaces for future circuits can be made safe by covering them with optional blanking pieces.

25



250A Enclosed Distribution Board	Code
8 Way 250A DB	TB25008C
12 Way 250A DB	TB25012C
16 Way 250A DB	TB25016C
18 Way 250A DB	TB25018C
24 Way 250A DB	TB25024C

2

## 250A – Connection Kits

### Select a supply connection kit. Kit includes copper links, device and cover.

Refer to selection flowchart on page 16



Supply Connection Kits	Code
250A 3P MCCB Incomer 250A DB	MLD2503C
250A 4P MCCB Incomer 250A DB	MLD2504C
160A 4P CBR* Incomer 250A DB	CBR1604C
250A 4P CBR* Incomer 250A DB	CBR1604C
250A 3P Sw Disc Incomer 250A DB	SWD2503C
250A 4P Sw Disc Incomer 250A DB	SWD2504C
250A 4P Direct Connection Kit 250A DB	DIR250
160A 4P Contactor Incomer 250A DB**	CON1604
125A 3P MCCB Incomer 250A DB	MLD1253

\*CBR – Circuit Breaker with Residual protection. Refer to page 6

\*\* Includes extension box and switch-disconnector

3

250A – Load Protection

Select a suitable load protection.



10kA MCBs - Single Pole			
Current Rating	B Curve Cat. Number	C Curve Cat. Number	D Curve Cat. Number
0.5A			102035
1A			101908
2A			101915
3A		101267	101922
4A		101274	101939
6A	100901	101281	101946
10A	100918	101298	101953
16A	100925	101304	101960
20A	100932	101311	101977
25A	100949	101328	101984
32A	100956	101335	101991
40A	100963	101342	102004
50A	100970	101359	102011
63A	100987	101366	102028



10kA MCBs - Triple Pole			
Current Rating	B Curve Cat. Number	C Curve Cat. Number	D Curve Cat. Number
0.5A			102318
1A			102189
2A			102196
3A		101571	102202
4A		101588	102219
6A	101083	101595	102226
10A	101090	101601	102233
16A	101106	101618	102240
20A	101113	101625	102257
25A	101120	101632	102264
32A	101137	101649	102271
40A	101144	101656	102288
50A	101151	101663	102295
63A	101168	101670	102301



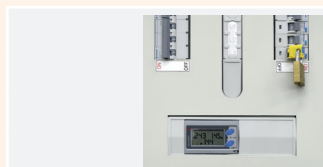
10kA RCBOs - Single Pole			
Current Rating	Sensitivity	B Curve Cat. Number	C Curve Cat. Number
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10A	30mA	103681	103759
16A	30mA	103698	103766
20A	30mA	103704	103773
25A	30mA	103711	103780
32A	30mA	103728	103797
40A	30mA	103735	103803

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# 4

## 250A – Accessories

Select the required accessories.



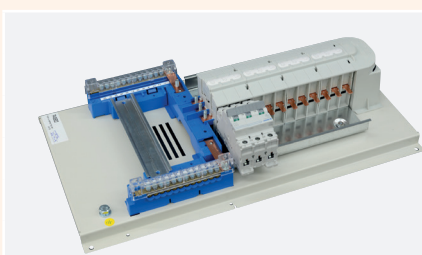
Integral Supply Metering Kits		Code
Multifunction Meter Kit Pulsed 250A		PMM2
Multifunction Meter Kit Modbus 250A		MMM2
KWH Pulsed Meter Kit 250A		KPM2



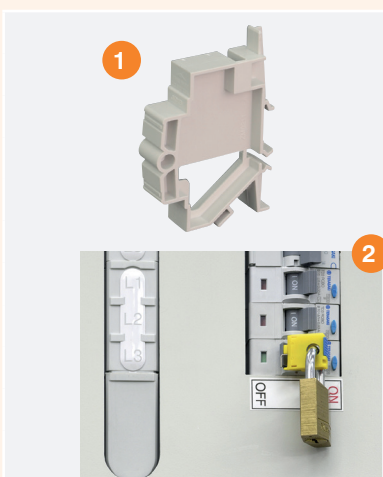
Part L2 Solution: Single Supply, Double Load Metering Kit		Code
Dual Pulsed Multimeter Kit 250A DB		PMM250C
Dual Modbus Multimeter Kit 250A DB		MMM250C



Key	Extension Boxes	Code
	1 Row 16 MOD Din Extension Box 250A DB	TB250DINX16C
1	2 Row 32 MOD Din Extension Box 250A DB	TB250DINX32C
	1 Row 16 MOD Din Ext Box Glazed 250A DB	TB250DINXG16
	2 Row 32 MOD Din Ext Box Glazed 250A DB	TB250DINXG32
	Small Cable Spreader Box 250A DB	TBCABXS250C
2	Large Cable Spreader Box 250A DB	TBCABXL250C
	Door Kit for Small Cable Box 125 & 250A	TBCABXSDRC
	Door Kit for Large Cable Box 125 & 250A	TBCABXLDRC
	8 Way Half-Width Ext Box 250A DB	TBHX25008C
	12 Way Half-Width Ext Box 250A DB	TBHX25012C
	16 Way Half-Width Ext Box 250A DB	TBHX25016C
	18 Way Half-Width Ext Box 250A DB	TBHX25018C
	24 Way Half-Width Ext Box 250A DB	TBHX25024C
	Half-Width Filler Box 250 DB	TBFB250C



250A Busbar Assemblies		Code
8 Way 250A Busbar Assembly		TB25008PA
12 Way 250A Busbar Assembly		TB25012PA
16 Way 250A Busbar Assembly		TB25016PA
18 Way 250A Busbar Assembly		TB25018PA
24 Way 250A Busbar Assembly		TB25024PA



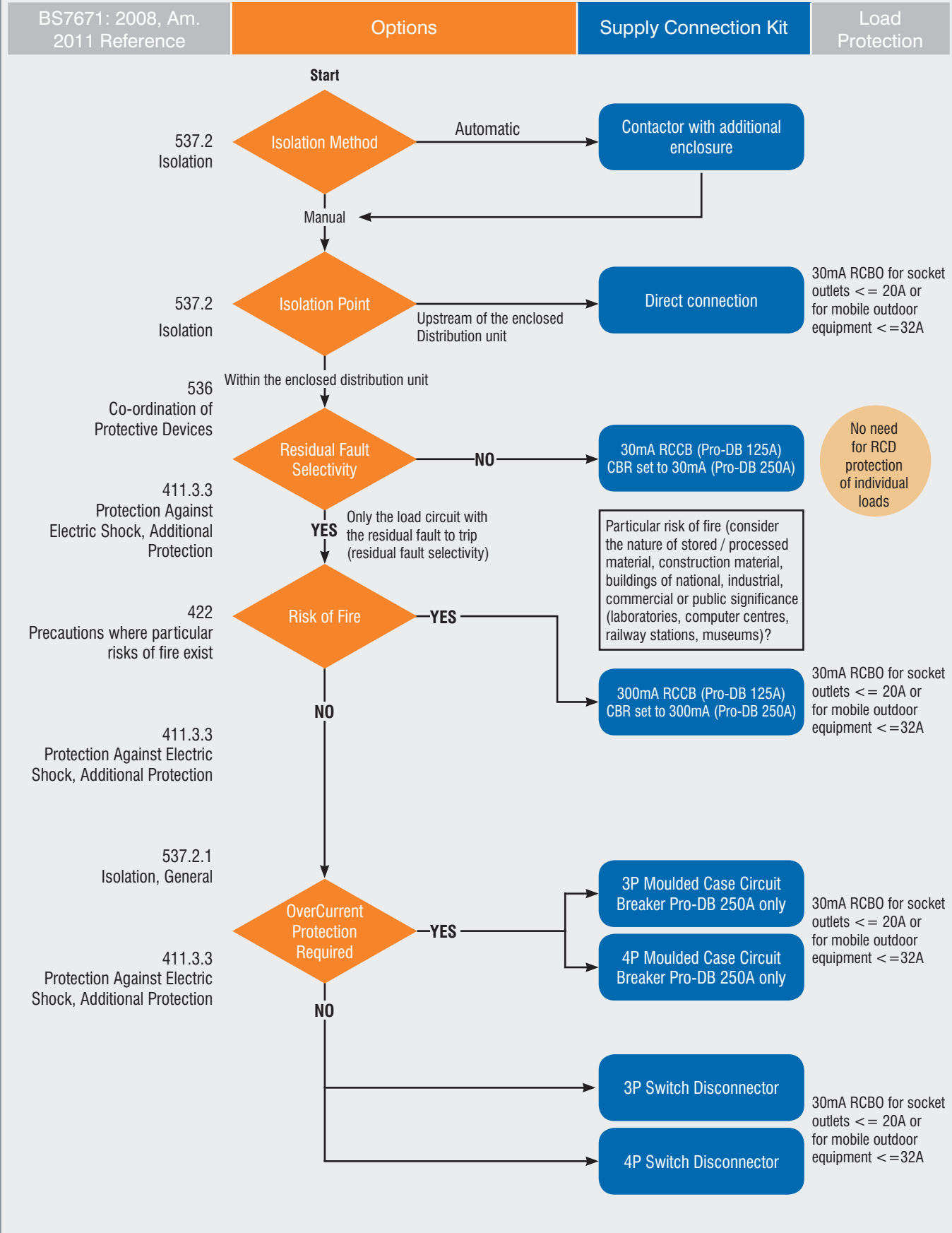
Key	Accessories	Code
	Meter Data Logger TCP/IP	TACCDATA
	Door Locking Kit for Type B DB 125 & 250A	TBACCLOCK
	Spare Label Pack 125 & 250A	TBACCLAB
	Single Phasing Kit for 250A DB	TBACC2501PK
	Touch-up Paint	TBACCPAINT
1	1P Busbar Blank	TBACCBLANK
	Mechanical Connection Kit Horizontal/Vertical	TBACCCONN
	Top Tap Off Kit for 125 & 250A 125A & 250A	TBACCTOPTAP
	TP Earth Bar Kit High Integrity, 2 x 15 terminals	TBACCCEARKIT
	TP Earth Bar Kit Clean, 2 x 15 terminals	TBACCCEARKIT
2	Padlock Device for TD3	TD3LOK

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# Flowchart

## Selection of a supply connection kit for distribution boards to comply with IET Wiring Regulations Seventeenth Edition







## PRO-DB Distribution Boards



### Specifications

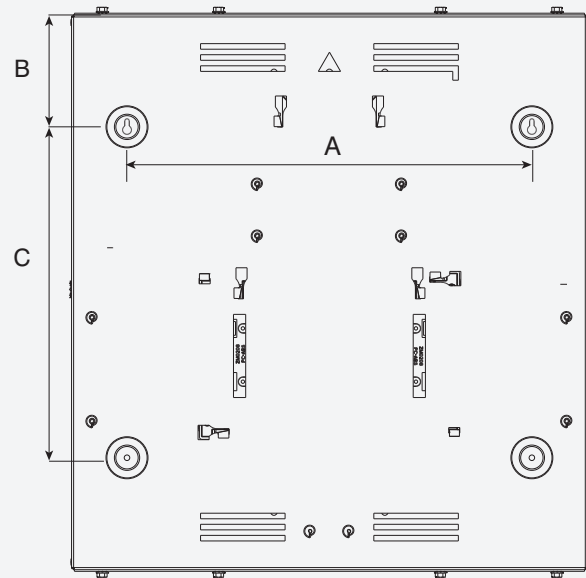
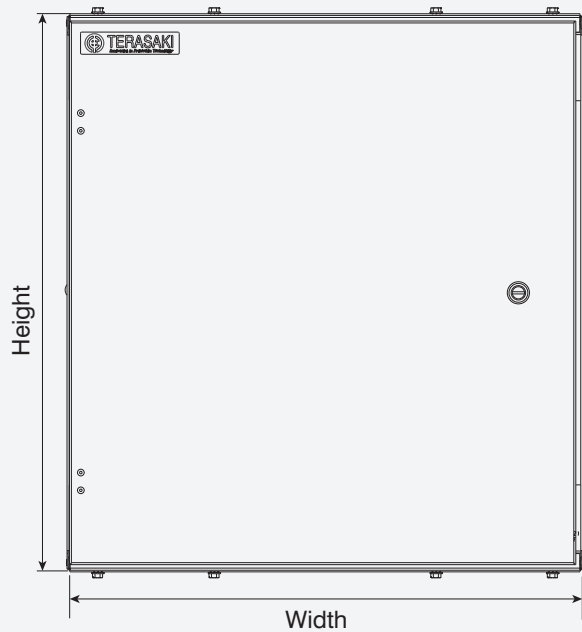
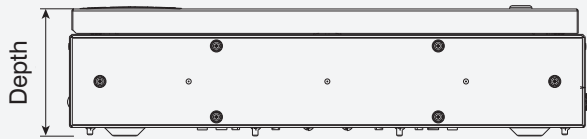
Standard	BS EN 61439-1
Busbar Nominal Current	125A or 250A
Busbar Fault Current	25kA Conditional
Busbar Material	Copper
Busbar Structure	Fully shrouded
Nominal Voltage	400V AC
Ingress Rating	IP3X to BS EN 60529
Enclosure Material	0.9mm steel
Enclosure Colour	Powder-coated RAL 9002
Supply Earth Terminal	M8 stud
Supply Neutral Terminal	50mm <sup>2</sup> clamp or M5 stud
Load Earth Terminals	16mm <sup>2</sup>
Load Neutral Terminals	16mm <sup>2</sup>
Mounting	4 Keyhole fixings plus central top keyhole for hanging and levelling
Cable Entry	Removable gland plates top and bottom
Door Security	Slotted catch as standard, keylock optional



# PRO-DB Distribution Boards



## Dimensions



### 125A Enclosed Distribution Board

	Code	Dimensions (mm)			Fixing Centres (mm)		
		Height	Width	Depth	A	B	C
4 Way 125A DB	TB12504C	500	465	114.5	365	100	300
6 Way 125A DB	TB12506C	550	465	114.5	365	100	350
8 Way 125A DB	TB12508C	625	465	114.5	365	100	425
12 Way 125A DB	TB12512C	850	465	114.5	365	100	650
16 Way 125A DB	TB12516C	950	465	114.5	365	100	750
18 Way 125A DB	TB12518C	1100	465	114.5	365	100	900
24 Way 125A DB	TB12524C	1250	465	114.5	365	100	1050

### 250A Enclosed Distribution Board

	Code	Dimensions (mm)			Fixing Centres (mm)		
		Height	Width	Depth	A	B	C
8 Way 250A DB	TB25008C	950	465	146.5	365	100	750
12 Way 250A DB	TB25012C	1100	465	146.5	365	100	900
16 Way 250A DB	TB25016C	1250	465	146.5	365	100	1050
18 Way 250A DB	TB25018C	1400	465	146.5	365	100	1200
24 Way 250A DB	TB25024C	1550	465	146.5	365	100	1350

### Supply Connection Box for Contactors

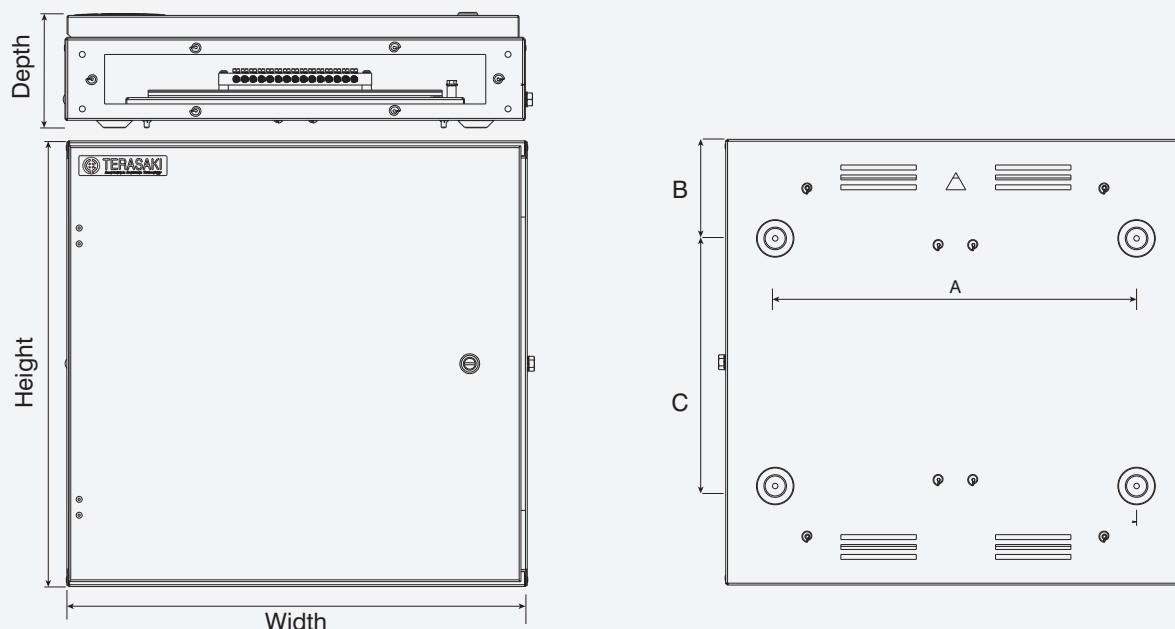
Code	Dimensions (mm)		
	Height	Width	Depth
CON0634C	300	465	146.5
CON1004C	450	465	215.5
CON1604C	450	465	215.5



# PRO-DB Distribution Boards



## Dimensions



125A Extension Boxes for DIN Modular Devices						
Code	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
TB125DINX16C	300	465	114.5	365	150	
TB125DINX32C	450	465	114.5	365	100	250
TB125DINXG16C	300	465	132.5	365	150	
TB125DINXG32C	450	465	132.5	365	100	250

250A Extension Boxes for DIN Modular Devices						
Code	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
TB250DINX16C	300	465	146.5	365	150	
TB250DINX32C	450	465	146.5	365	100	250
TB250DINXG16C	300	465	165.5	365	150	
TB250DINXG32C	450	465	165.5	365	100	250

125A Supply Cable Boxes							
Code	Dimensions (mm)			with door (optional)	Fixing Centres (mm)		
	Height	Width	Depth	Depth	A	B	C
TBCABXS125C	300	465	96.8	114.5	365	150	
TBCABXL125C	450	465	96.8	114.5	365	100	250

250A Supply Cable Boxes							
Code	Dimensions (mm)			with door (optional)	Fixing Centres (mm)		
	Height	Width	Depth	Depth	A	B	C
TBCABXS250C	300	465	129.8	146.5	365	150	
TBCABXL250C	450	465	129.8	146.5	365	100	250

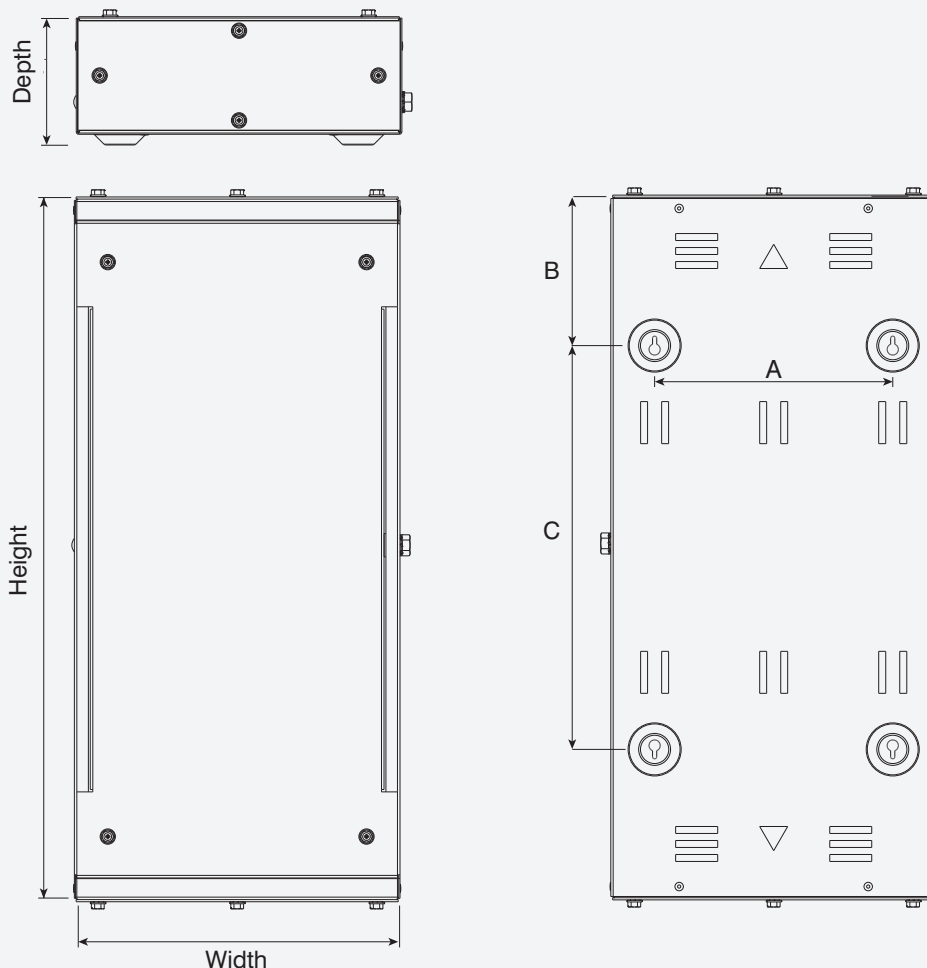
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# PRO-DB Distribution Boards



## Dimensions



### 125A Half-Width Side Extension Boxes

Code	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
TBHX12504C	500	232.5	96.3	170	105.9	288.2
TBHX12506C	550	232.5	96.3	170	105.9	338.2
TBHX12508C	625	232.5	96.3	170	105.9	413.2
TBHX12512C	850	232.5	96.3	170	105.9	638.2
TBHX12516C	950	232.5	96.3	170	105.9	738.2

### 250A Half-Width Side Extension Boxes

Code	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
TBHX25008C	950	232.5	129.6	170	105.9	738.2
TBHX25012C	1100	232.5	129.6	170	105.9	888.2
TBHX25016C	1250	232.5	129.6	170	105.9	1038.2
TBHX25018C	1400	232.5	129.6	170	105.9	1188.2
TBHX25024C	1550	232.5	129.6	170	105.9	1338.2

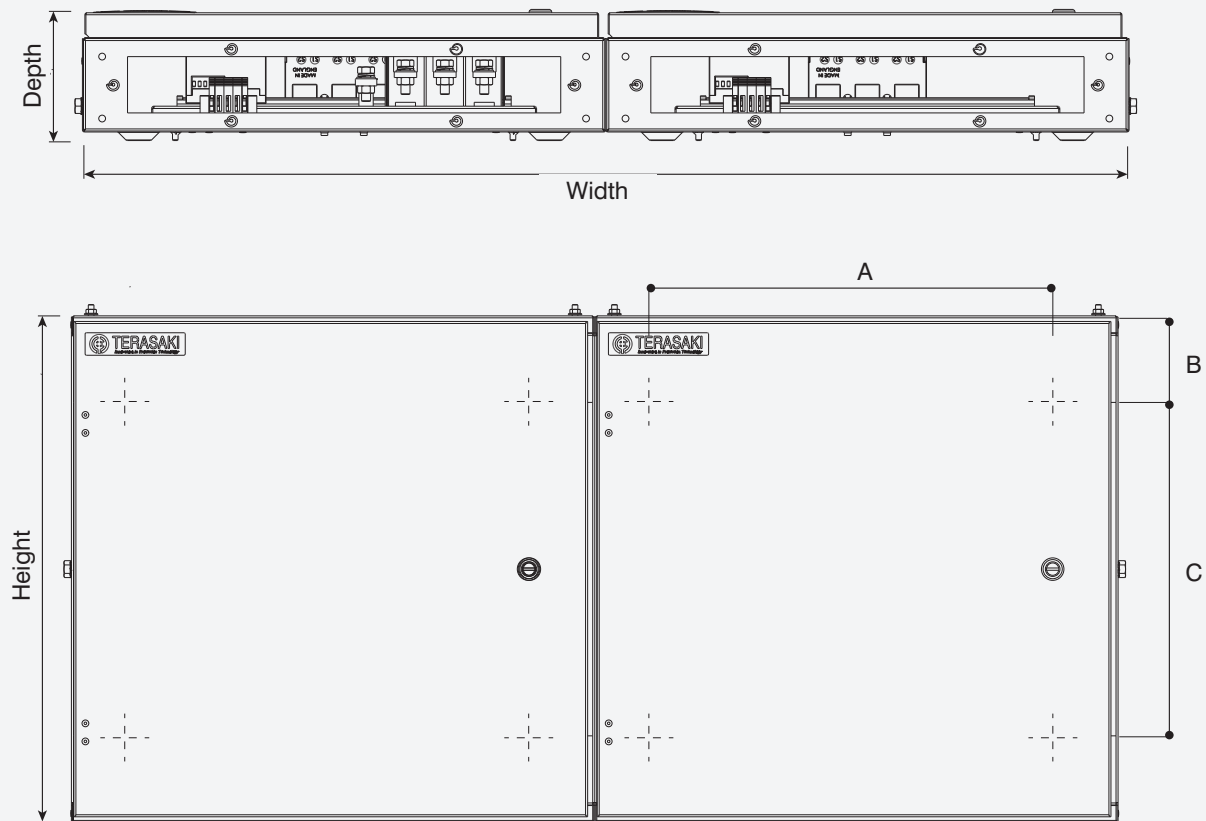
20 | Call our Sales Order Line on 0141 941 1940 or email: [sales@terasaki.co.uk](mailto:sales@terasaki.co.uk)



# PRO-DB Distribution Boards



## Dimensions



### 125A Single Supply, Double Load Metering Kit

Code	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
PMM125C	450	930	113.5	365	80	290
MMM125C	450	930	113.5	365	80	290

### 250A Single Supply, Double Load Metering Kit

Code	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
PMM250C	625	930	146.5	365	100	425
MMM250C	625	930	146.5	365	100	425

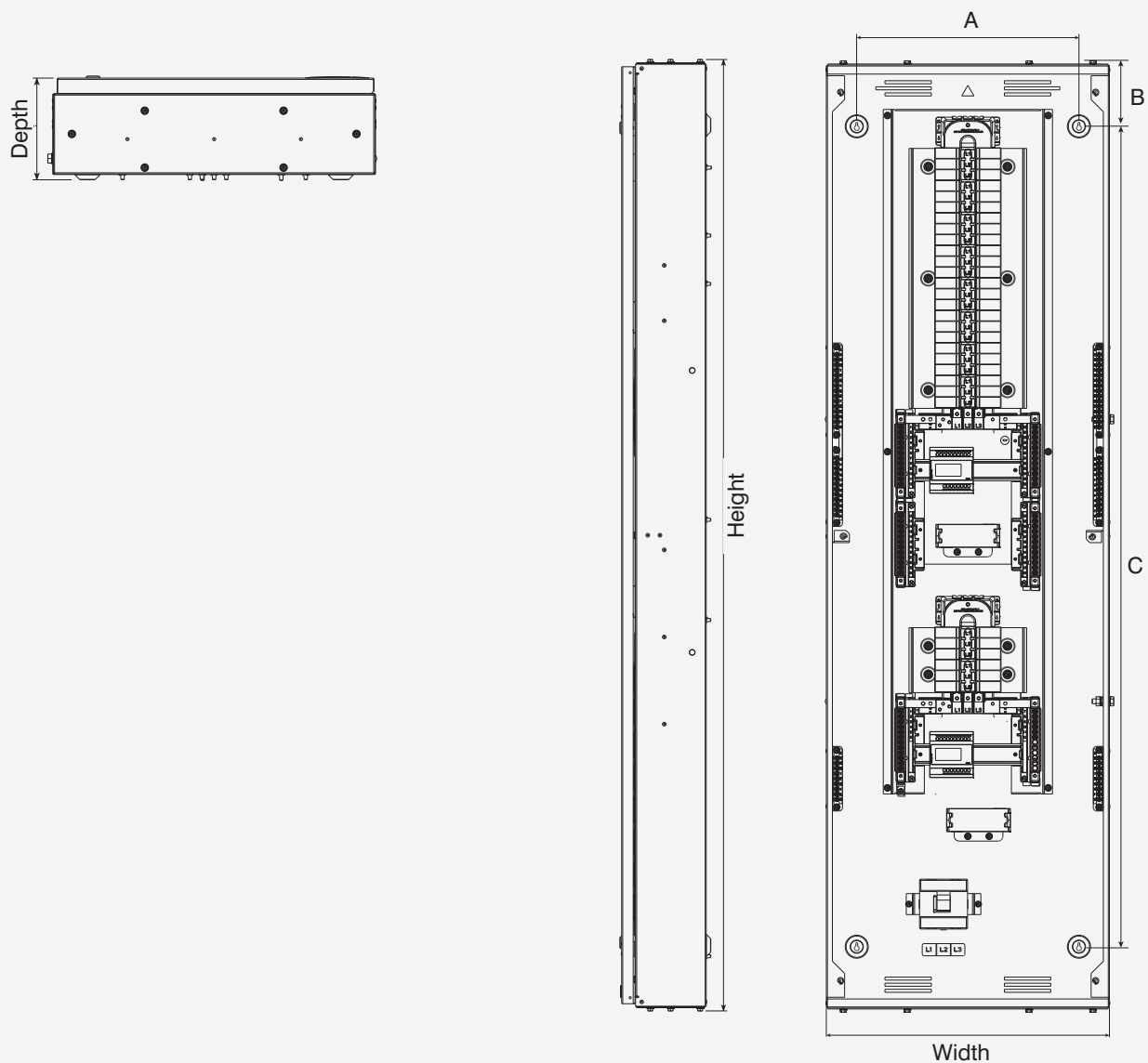
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# PRO-DB Distribution Boards



## Dimensions



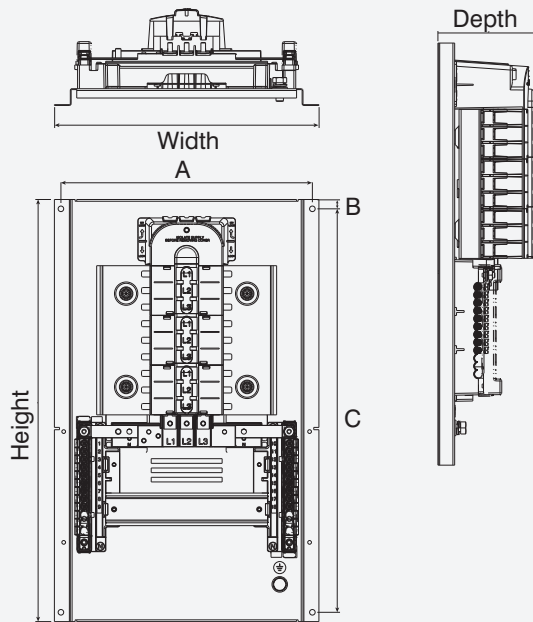
Distribution Board with Integral Double Load Metering						
Code	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
TBS416C	1563.6	465	146.5	365	100	1350
TBS812C	1563.6	465	146.5	365	100	1350



# PRO-DB Distribution Boards



## Dimensions



### 125A Busbar Assemblies

Code	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
TB12504PA	400	284.2	103.2	270.2	10	380
TB12506PA	453.4	284.2	103.2	270.2	10	433.4
TB12508PA	506.8	284.2	103.2	270.2	10	486.8
TB12512PA	759.7	284.2	103.2	270.2	10	739.7
TB12516PA	866.5	284.2	103.2	270.2	10	846.5
TB12518PA	1066	284.2	103.2	270.2	10	1046
TB12524PA	1226.2	284.2	103.2	270.2	10	1206.2

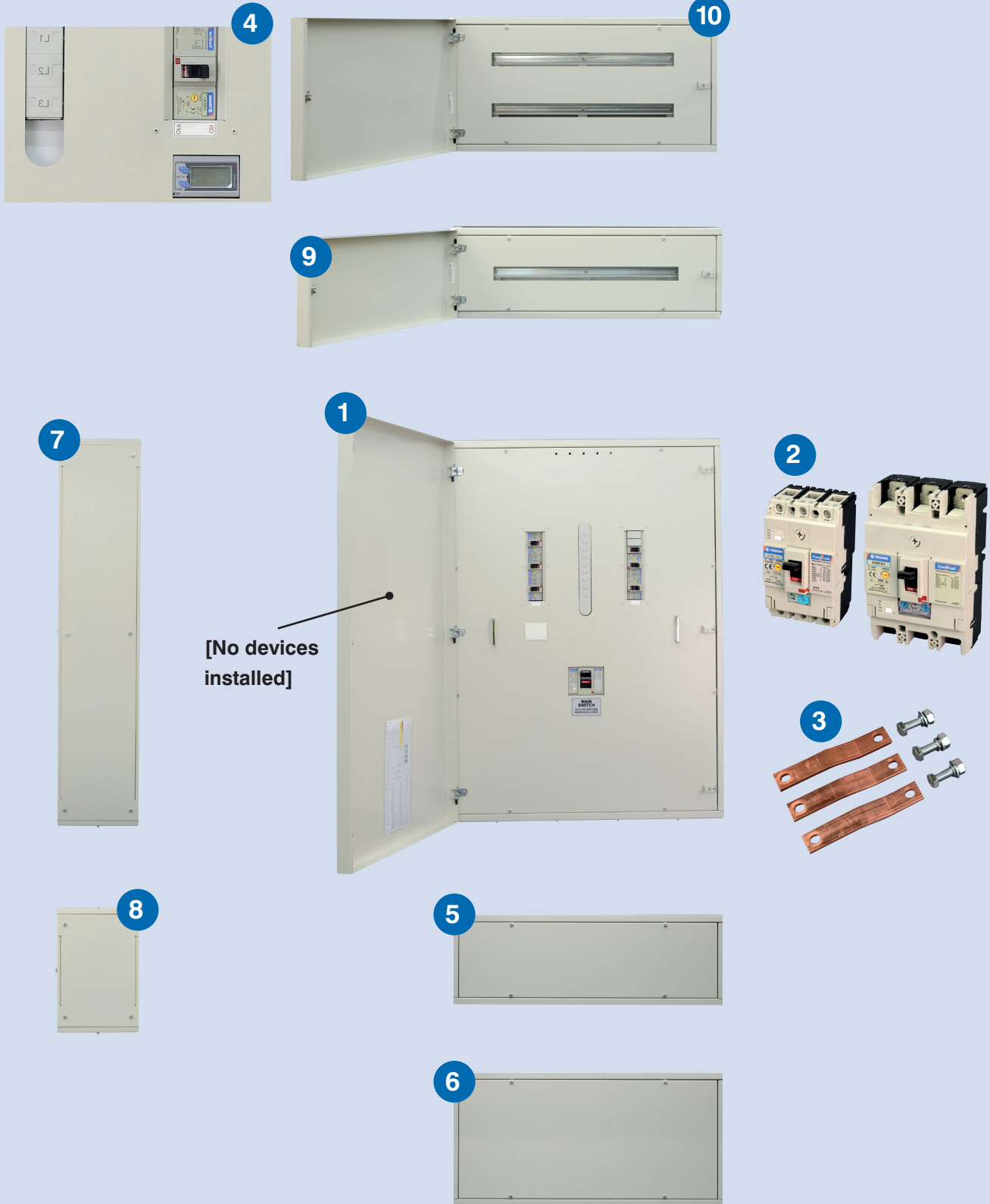
### 250A Busbar Assemblies

Code	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
TB25008PA	668.2	284.2	103.2	270.2	25	618.2
TB25012PA	775.6	284.2	103.2	270.2	25	725.6
TB25016PA	882.4	284.2	103.2	270.2	25	832.4
TB25018PA	1075.8	284.2	103.2	270.2	25	1025.8
TB25024PA	1236	284.2	103.2	270.2	25	1186

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# PRO-PANEL 2 Panelboards 400A & 800A





Pro-Panel 400A and 800A Panel Boards are wall-mounted electrical distribution systems designed for Terasaki circuit breakers. At the heart of your electrical network the Pro-Panel range offers uncomplicated solutions for sub and main power distribution.

The three-phase incoming electrical supply can be connected through a Switch-Disconnecter, Circuit Breaker or Direct Connection Kit. A combination of single-phase and three phase loads can be connected to the outgoing terminals. The neutral conductor can be isolated by the supply connection device or connected directly to the neutral bar. Twin earth and neutral bars allow easy identification with corresponding line conductors.

Protection from exposed electrical conductors is provided by a cover plate, through which the supply and loads can be manually switched. Access to the switches is by opening the hinged door which is optionally lockable.



Key	Description	Comment
1	Enclosed Panel Board	3 styles: 400A, 800A & 800A with MCCB Incomer
2	Load Protection Device	125A max for 400A panelboard. Combination of 125A & 250A MCCBs for 800A panelboard.
3	Supply Connection Kit	
4	Integral Supply Metering Kit	Fits inside the panel board
5	Supply Cable Box, Small	
6	Supply Cable Box, Large	
7	Side Extension Box	
8	Corner Filler Box	Allows an assembly with side extension boxes to be finished in a regular shape.
9	34 Module Extension Box for DIN modular devices	For example: Surge protection, modular contactors
10	34 Module Extension Box for DIN modular devices	For example: Surge protection, modular contactors

The user assembles the components of the Pro-Panel system, usually at the place of installation (on-site).

A basic distribution system consists of an enclosed panel board (1), a supply connection kit (3) and load protection devices (2). Adding accessories can allow metering, extra space for incoming cables and a mounting system for DIN modular devices.



# PRO-PANEL 2 Panelboards 400A Selection Guide

1

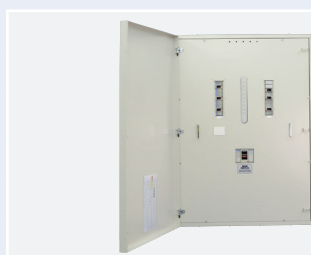
## 400A Panelboards

### Choose a Panelboard.

Maximum outgoing device rating = 125A

Outgoing device frame: TB2 Lite S160 (maximum 125A)

Outgoing device frame: 1P or 3P



400A Enclosed Panel Board	Code
6 Way	TP4006125
8 Way	TP4008125
12 Way	TP40012125
16 Way	TP40016125
18 Way	TP40018125

2

## 400A Panelboard – Connection Kits

### Select a connection kit.



Key	Supply Connection Kit	Model	Code
	400A 3P Direct Connection Kit		DIR400
	<b>OR</b>		
1	400A 3P Links and Shroud Kit		INC4004003
	400A 4P Links and Shroud Kit		INC4004004
	<b>PLUS</b>		
	400A 3P Switch Disconnecter	S400-NN	381553
	400A 3P MCCB Incomer (Electronic)	S400-NE	379628
	400A 3P MCCB Incomer (Thermal Magnetic)	S400-CJ	381430
	400A 4P Switch Disconnecter	S400-NN	381577
	400A 4P MCCB Incomer (Electronic)	S400-NE	379741
2	400A 4P MCCB Incomer (Thermal Magnetic)	S400-CJ	378652

Optional Accessories for 400A Supply Connection Kits	Code
Digital Meter Pack 400A PB	PMM4
3P Terminal Cover for Supply Side	081002
3P Spreader Bars for Supply Side	010323
3P Spreader Terminal Cover for Supply Side	081347
4P Terminal Cover for Supply Side	081019
4P Spreader Bars for Supply Side	010330
4P Spreader Terminal Cover for Supply Side	080814
Padlocking Device for Incomer	037207

**3**

**400A Panelboard – Load Protection**

Select load protection.




160A Frame MCCBs – Single Pole	
Fixed Protection complete with cable clamps	
Rating	Icu = 25kA at 240V AC
16A	591761
20A	591778
25A	591785
32A	591792
40A	591808
50A	591815
63A	591822
80A	591839
100A	591846
125A	591853



160A Frame MCCBs – Triple Pole			
Adjustable Protection complete with cable clamps			
Rating	Icu = 16kA at 400V AC	Icu = 25kA at 400V AC	Icu = 40kA at 400V AC
25A	592263	591983	592546
40A	592270	591990	592553
63A	592287	592003	592560
80A	592294	592010	592577
100A	592300	592027	592584
125A	592317	592034	592591

Select the required accessories.

Description	Code
1P 125A Load Terminal Cover	065224
3P 125A Load Terminal Cover	065248
1P Blanking Plate for 125A	TP125BLANK
Key lock with one key for PB	TPACCLOCK
Allen Key Set	TPACCALLEN
Touch Up Paint 30ml for PB	TPACCPAINT
End Plate for 400/800 PB	TPENDPLATE
Padlock Device for outgoing MCCB	064906
1 Row 34 Mod DIN Ext Box 300mm	TP400800DINX34
2 Row 68 Mod DIN Ext Box 450mm	TP400800DINX68
Small Spreader Box 300mm Door Kit	TPCABS400800DK
Small Spreader Box 300mm	TPCABS400800
Large Spreader Box 450mm Door Kit	TPCABL400800DK
Large Spreader Box 450mm	TPCABL400800
6 Way Side Metering Box	TP6WSMB
8 Way Side Metering Box	TP8WSMB
12 Way Side Metering Box	TP12WSMB
16 Way Side Metering Box	TP16WSMB
18 Way Side Metering Box	TP18WSMB
Corner Filler Box	TPCSMB

400A Pan Assembly	Outgoing Ways	Code	
	6 Way 400A Pan Assembly	6	TP4006125PA
	8 Way 400A Pan Assembly	8	TP4008125PA
	12 Way 400A Pan Assembly	12	TP40012125PA
	16 Way 400A Pan Assembly	16	TP40016125PA
	18 Way 400A Pan Assembly	18	TP40018125PA



# PRO-PANEL 2 Panelboards 800A Selection Guide

1

## 800A Panelboards

### Choose a Panelboard.

Maximum outgoing device rating = 250A

Outgoing device frame: TB2 Lite S160 (maximum 125A) or TB2 Lite S250

Outgoing device poles: 1P or 3P

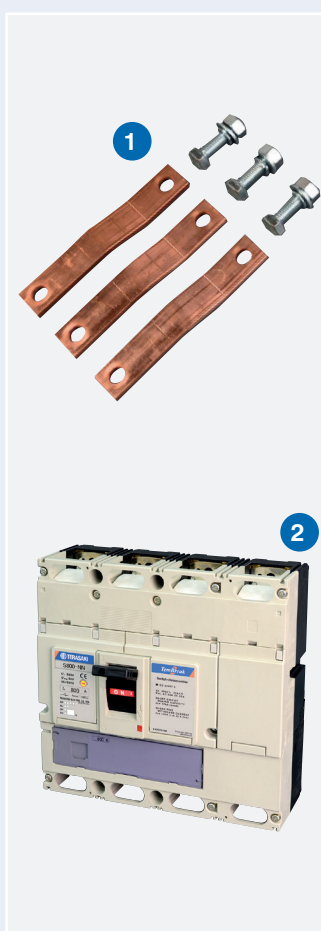


800A Enclosed Panel Board	Outgoing MCCB Combination	Code
6 Way	2 x 250A + 4 x 125A 800A PB	TP80022504125
8 Way	2 x 250A + 6 x 125A 800A PB	TP80022506125
8 Way	4 x 250A + 4 x 125A 800A PB	TP80042504125
12 Way	2 x 250A + 10 x 125A 800A PB	TP800225010125
12 Way	4 x 250A + 8 x 125A 800A PB	TP80042508125
18 Way	4 x 250A + 14 x 125A 800A PB	TP800425014125
18 Way	6 x 250A + 12 x 125A 800A PB	TP800625012125

2

## 800A Panelboard – Connection Kits

### Select a connection kit.



Key	Supply Connection Kit	Model	Code
	800A 3P PB Direct Connection Kit		DIR800
	<b>OR</b>		
	400A 3P Links and Shroud Kit		INC4008003
	400A 4P Links and Shroud Kit		INC4008004
1	630A 3P Links and Shroud Kit		INC6308003
	630A 4P Links and Shroud Kit		INC6308004
	800A 4P Links and Shroud Kit		INC8008004
	<b>PLUS</b>		
	400A 3P Switch Disconnecter	S400-NN	381553
	400A 3P MCCB Incomer (Electronic)	S400-NE	379628
	400A 3P MCCB Incomer (Thermal Magnetic)	S400-CJ	381430
	400A 4P Switch Disconnecter	S400-NN	381577
	400A 4P MCCB Incomer (Electronic)	S400-NE	379741
	400A 4P MCCB Incomer (Thermal Magnetic)	S400-CJ	378652
	630A 3P Switch Disconnecter	S800NN	Contact Terasaki
	630A 3P MCCB Incomer (Electronic)	S800-NE	812262
2	630A 3P MCCB Incomer (Thermal Magnetic)	S800-CJ	812088
	630A 4P Switch Disconnecter	S800NN	Contact Terasaki
	630A 4P MCCB Incomer (Electronic)	S800-NE	812361
	630A 4P MCCB Incomer (Thermal Magnetic)	S800-CJ	812101
	800A 4P Switch Disconnecter		Contact Terasaki

Continued...

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# PRO-PANEL 2 Panelboards 800A

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## 800A Panelboard – Connection Kits

Optional Accessories for Supply Connection Kits	Code
Digital Meter Pack 400A PB	PMM4
Digital Meter Pack 800A PB	PMM8
400A 3P Spreader Bars for Supply Side	010323
400A 3P Terminal Cover for Supply Side	081347
400A 4P Spreader Bars for Supply Side	010330
400A 4P Terminal Cover for Supply Side	080814
630A 3P Attach Bars for Supply Side	215003357
630A 3P Terminal Cover for Supply Side	081040
630A 4P Attach Bars for Supply Side	215003359
630A 4P Terminal Cover for Supply Side	081057
Padlocking Device for Incomer (400~800A)**	037207

\*\*Except 800A Switch Disconnecter

3

## 800A Panelboard – Load Protection

Select a suitable load protection.

### 160A Frame MCCBs – Single Pole

#### Fixed Protection complete with cable clamps



Rating	Icu = 16kA at 400V AC
16A	591761
20A	591778
25A	591785
32A	591792
40A	591808
50A	591815
63A	591822
80A	591839
100A	591846
125A	591853

### 160A Frame MCCBs – Triple Pole

#### Adjustable Protection complete with cable clamps



Rating	Icu = 16kA at 400V AC	Icu = 25kA at 400V AC	Icu = 40kA at 400V AC
25A	592263	591983	592546
40A	592270	591990	592553
63A	592287	592003	592560
80A	592294	592010	592577
100A	592300	592027	592584
125A	592317	592034	592591

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## 250A Frame MCCBs - Triple Pole

Adjustable Protection complete with front connections



Rating	Icu = 16kA at 400V AC	Icu = 25kA at 400V AC	Icu = 40kA at 400V AC
50A	933486	933523	933561
63A	933493	933530	933578
100A	929540	930485	
125A	929557	930492	
160A	929564	930508	930683
200A	929571	930515	930690
250A	929588	930522	930706



# PRO-PANEL 2 Panelboards 800A MCCB Incomer Selection Guide

1

## 800A MCCB Incomer Panelboard

### Choose a Panelboard.

Maximum outgoing device rating = 250A

Outgoing device frame: TB2 Lite S160 (maximum 125A) or TB2 Lite S25

Outgoing device poles: 1P or 3P

800A Enclosed Panel Board	Outgoing MCCB Combination	Code
12 Way	2 x 250A + 10 x 125A 800A PB	TPP800225010125
12 Way	4 x 250A + 8 x 125A 800A PB	TPP80042508125
18 Way	4 x 250A + 14 x 125A 800A PB	TPP800425014125
18 Way	6 x 250A + 12 x 125A 800A PB	TPP800625012125

2

## 800A MCCB Incomer Panelboard – Connection Kit

### Select a connection kit.

Refer to flow chart on regulations and standards.

Incomer Connection Kit	Code
800A 3P Links and Shroud Kit	INCM8008003
800A 4P Links and Shroud Kit	INCM8008004
<b>PLUS</b>	
800A 3P MCCB Incomer (Electronic)	MLD8003C
800A 4P MCCB Incomer (Electronic)	MLD8004C
Optional Accessories for 800A Supply Connection Kits	Code
Digital Meter Pack 800A PB	PMM8





# PRO-PANEL 2 Panelboards 800A (MCCB Incomer Panelboards)


3

## 800A MCCB Incomer Panelboard – Load Protection

Select a suitable load protection.


### 160A Frame MCCBs - Single Pole

Fixed Protection complete with cable clamps

	Rating	Icu = 16kA at 400V AC
	16A	591761
20A	591778	
25A	591785	
32A	591792	
40A	591808	
50A	591815	
63A	591822	
80A	591839	
100A	591846	
125A	591853	


### 125A Frame MCCBs - Triple Pole

Adjustable Protection complete with cable clamps

	Rating	Icu = 16kA at 400V AC	Icu = 25kA at 400V AC	Icu = 40kA at 400V AC
	25A	592263	591983	592546
40A	592270	591990	592553	
63A	592287	592003	592560	
80A	592294	592010	592577	
100A	592300	592027	592584	
125A	592317	592034	592591	

### 250A Frame MCCBs - Triple Pole

Adjustable Protection complete with front connections

	Rating	Icu = 16kA at 400V AC	Icu = 25kA at 400V AC	Icu = 40kA at 400V AC
	50A	933486	933523	933561
63A	933493	933530	933578	
100A	929540	930485		
125A	929557	930492		
160A	929564	930508	930683	
200A	929571	930515	930690	
250A	929588	930522	930706	

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## PRO-PANEL 2 Panelboards 800A

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### 800A Panelboard – Accessories

Select the required accessories.

Description	Note	Code
3P 250A Busbar Side Terminal Cover	(required)	TP250TERCOV
3P 250A Load Terminal Cover	(optional)	065309
1P 125A Load Terminal Cover	(optional)	065224
3P 125A Load Terminal Cover	(optional)	065248
1P Blanking Plate for 125A	(3 per 3 pole MCCB)	TP125BLANK
3P Blanking Plate for 250A	(1 per 3 pole MCCB)	TP250BLANK
Key lock with one key for PB	(optional)	TPACCLOCK
Allen Key Set	(optional)	TPACCALLEN
Touch Up Paint 30ml for PB	(optional)	TPACCPAINT
End Plate for 400/800 PB	(optional)	TPENDPLATE
Padlock Device for outgoing MCCB	(optional)	064906



#### 800A Pan Assembly

Description	Outgoing Ways	Outgoing Way Rating	Code
6 Way 800A Pan Assembly	6	2 x 250A + 4 x 125A	TP80022504125PA
8 Way 800A Pan Assembly	8	2 x 250A + 6 x 125A	TP80022506125PA
8 Way 800A Pan Assembly	8	4 x 250A + 4 x 125A	TP80042504125PA
12 Way 800A Pan Assembly	12	2 x 250A + 10 x 125A	TP800225010125PA
12 Way 800A Pan Assembly	12	4 x 250A + 8 x 125A	TP80042508125PA
18 Way 800A Pan Assembly	18	4 x 250A + 14 x 125A	TP800425014125PA
18 Way 800A Pan Assembly	18	6 x 250A + 12 x 125A	TP800625012125PA



## PRO-PANEL 2 Panelboards 400A & 800A



### Specifications

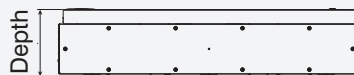
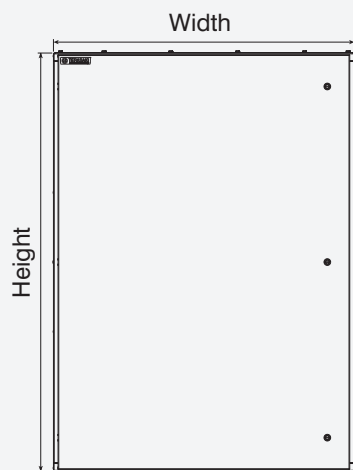
Panelboard Type	400A	800A	800A MCCB Incomer
Standard	BS EN 61439-2		
Busbar Rated Current	400A	800A	
Main Busbar Withstand Rating	Icw = 35kA for 1 sec / 73.5kA Pk		
Busbar Material	Copper		
Busbar Structure	Fully shrouded		
Nominal Voltage	400V AC		
Ingress Rating	IP2X to BS EN 60529		
Form of Separation	Form 3A is standard Form 3B, Type 2 is available on request. Contact Terasaki		
Enclosure Material	1.2mm Steel		
Enclosure Colour	Powder-coated RAL 9002		
Outgoing Ways	6, 8, 12, 16 & 18 Triple pole ways		12 & 18 Triple pole ways
Outgoing MCCBs	Single pole up to 125A	Single pole up to 125A	Single pole up to 125A
	Triple pole up to 125A	Triple pole up to 125A	Triple pole up to 125A
		Triple pole up to 250A	Triple pole up to 250A
Supply Earth Terminal	M10		
Supply Neutral Terminal	M12		
Incoming Supply Terminal	M12		
Load Earth Terminals	Up to 50mm CSA		
Load Neutral Terminals	Up to 50mm CSA		
MCCB Load Terminal	125A Cage Terminal 250A M8 Lug (narrow terminal type)		
Mounting	Keyhole - 6 positions	8 positions	
Cable Entry	Gland plates top and bottom		
Door Security	Slotted catch as standard, keylock optional		



# PRO-PANEL 2 Panelboards 400A & 800A

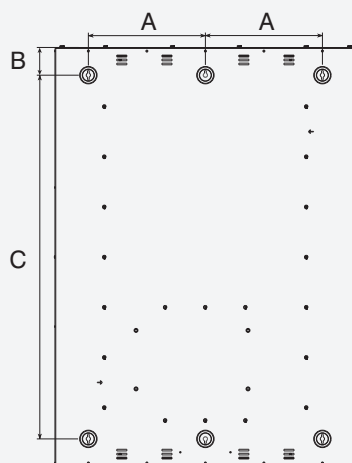


## Dimensions



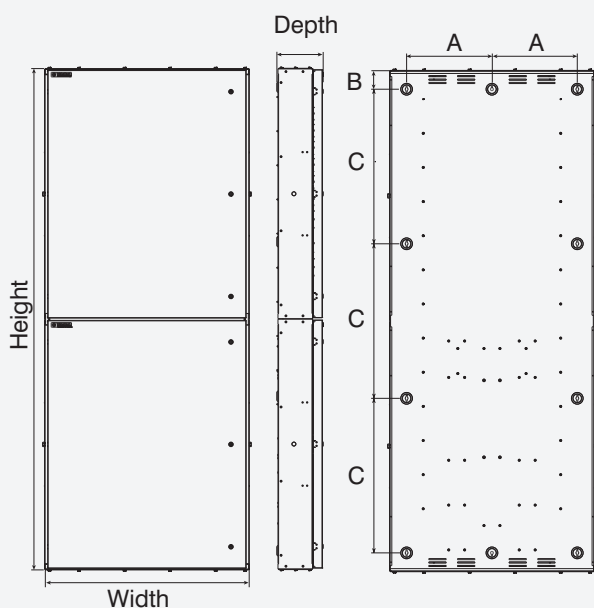
### 400A Enclosed Panel Boards

Code	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
TP4006125	1250	900	200	350	81.25	1087.5
TP4008125	1250	900	200	350	81.25	1087.5
TP40012125	1400	900	200	350	81.25	1237.5
TP40016125	1550	900	200	350	81.25	1387.5
TP40018125	1700	900	200	350	81.25	1537.5



### 800A Enclosed Panel Boards

Code	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
TP80022504125	1250	900	200	350	81.25	1087.5
TP80022506125	1250	900	200	350	81.25	1087.5
TP80042504125	1250	900	200	350	81.25	1087.5
TP800225010125	1400	900	200	350	81.25	1237.5
TP80042508125	1400	900	200	350	81.25	1237.5
TP800425014125	1700	900	200	350	81.25	1537.5
TP800625012125	1700	900	200	350	81.25	1537.5



### 800A Enclosed Panel Board with 800A MCCB Incomer

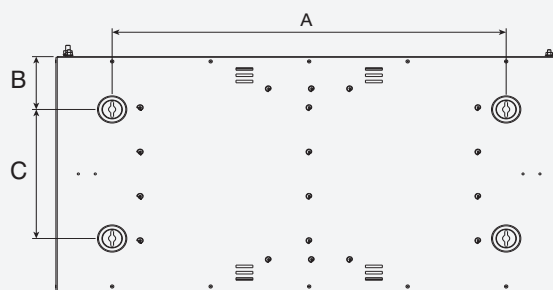
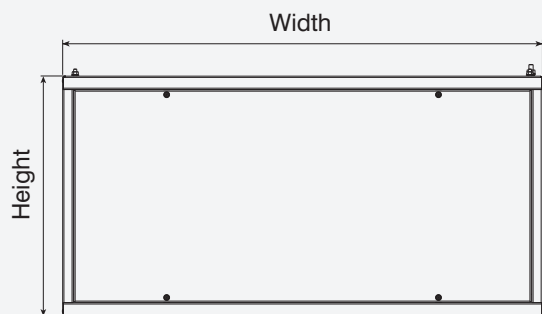
Code	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
TPP800225010125	2050	900	200	375	81.35	629.1
TPP80042508125	2050	900	200	375	81.35	629.1
TPP800425014125	2200	900	200	375	81.35	679.1
TPP800625012125	2200	900	200	375	81.35	679.1



# PRO-PANEL 2 Panelboards 400A & 800A



## Dimensions



400A & 800A Extension Boxes

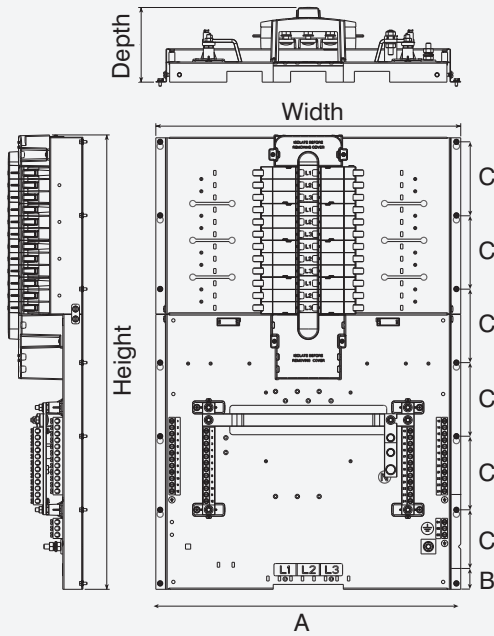
Code	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
TP400800DINX34	300	900	200	700	101.3	97.5
TP400800DINX68	450	900	200	700	101.3	247.5
TPCABS400800	300	900	160	700	101.3	97.5
TPCABL400800	450	900	160	700	101.3	247.5



# PRO-PANEL 2 Panelboards 400A & 800A



## Dimensions



### 400A Busbar Assemblies

Code	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
TP4006125PA	851	622	152	604	12	150
TP4008125PA	926	622	152	604	12	150
TP40012125PA	1096	622	152	604	32	150
TP40016125PA	1326	622	152	604	112	150
TP40018125PA	1440	622	152	604	151	150

### 800A Busbar Assemblies

Code	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
TP80022504125PA	903.8	622	152	604	32	150
TP80022506125PA	978.8	622	152	604	32	150
TP80042504125PA	1008.8	622	152	604	32	150
TP800225010125PA	1128.8	622	152	604	32	150
TP80042508125PA	1158.8	622	152	604	32	150
TP800425014125PA	1503.8	622	152	604	152	150
TP800625012125PA	1533.8	622	152	604	152	150



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