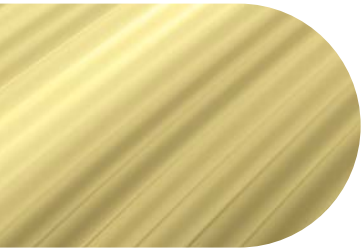
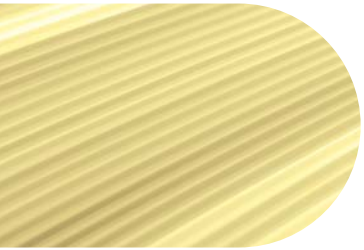
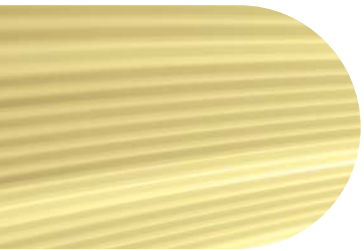


# Modis 25

Powerboard





# Dorman Smith Switchgear Limited

With over 130 years of experience in switchgear design and production Dorman Smith Switchgear Limited continues to provide high quality equipment for low-voltage electrical distribution and circuit protection.

Our product range begins with single-pole and neutral distribution board systems and continues up to custom designed, factory built low-voltage electrical switchboards for a broad range of commercial, industrial and retrofit applications.

We continue to build on our extensive technical knowledge and awareness of customer and market demands, operating conditions and current regulations.

This breadth of experience supports the development and manufacturing techniques of our electrical products to exceed the industry standards.

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## Modis 25 Powerboard

### Key Features

The Modis 25 Powerboard system has been dual designed to not only be a flexible and cost effective standalone Low Voltage Switchboard system but it also is fully compatible with our current Modis 25 Switchboard system as a compact outgoing frame section.

With an ASTA certified busbar and central riser system with a fault rating of 50kA for 1s, the Modis 25 Powerboard system delivers multiple system incoming and outgoing device options in a compact design.

Outgoing options includes thermal/magnetic MCCBs, electronic MCCBs and fuse combination switches all on the same central riser system.

For the standalone version a Loadline MCCB can be used which offers a space and cost saving against traditional Air Circuit Breaker options.

Standard finish is epoxy powder coating in light grey RAL 7035.

#### Compliance

LV Switchboard	BS EN 61439-2
MCCB	BS EN 60947-2
Fuse Switch	BS EN 60947-3

#### Form

Form 4b Type 6 is provided as standard for both group mounted and compartmentalised outgoing device options.

#### Ingress Protection

External rating of IP3X

#### Busbar

The Modis 25 Powerboard has an ASTA certified busbar and central riser system with current ratings of 1250A or 1600A and a busbar / riser fault rating of 50kA for 1s.



#### Frames

Rear access systems have a standard frame width of 1000mm. Front access systems have a standard frame width of 1600mm, which includes two 300mm cableways either side of the riser unit. The Modis 25 Powerboard can be used as a standalone system or incorporated as part of our current Modis 25 LV Switchboards.

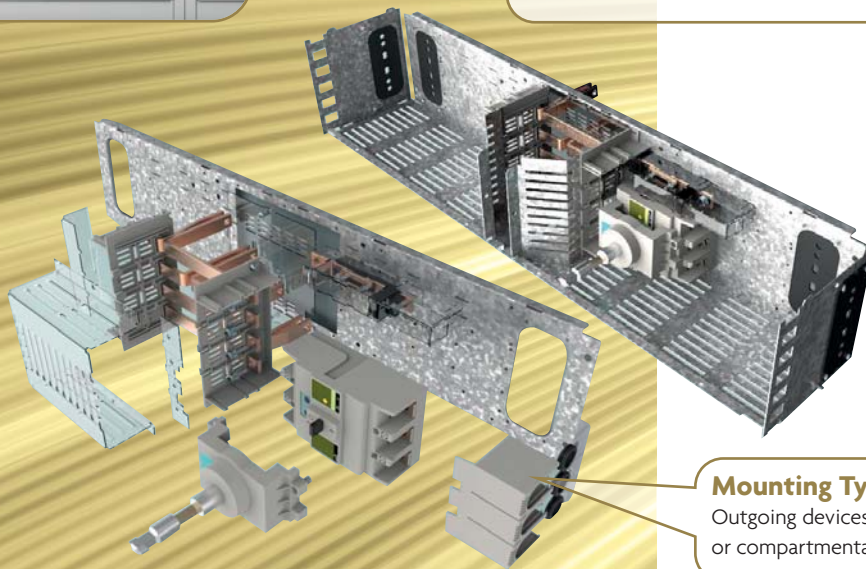
#### Riser Units

Each outgoing device in the riser unit has the option to have metering and Castell locking installed. The Modis 25 Powerboard system offers both group mounted and compartmentalised options for outgoing devices.



### Riser Units

This new system has the new facility of being able to mount our Loadline YA3 electronic MCCBs up to 250A, along with combinations of other MCCB frame sizes and Loadswitch fuse combination switches up to 400A. Suitable for mounting Loadline YB1 frame, YA3/YB3 frame thermal/magnetic, YA3 frame electronic, YA5 frame and YA6 frame MCCBs in mirrored pairs. Both Loadline MCCBs and Loadswitch fuse switches can be mounted on the same riser.



### Mounting Type

Outgoing devices can be group mounted or compartmentalised as required.



### Incoming Devices

As a stand-alone system the Modis 25 Powerboard can have either the Loadline 1250A YA7 MCCB rated at 1000A, Loadline 1250A YA8 MCCB rated at 1250A or Loadline 1600A YA8 MCCB rated at 1400A both 3-pole and neutral and 4-pole versions. This is a more cost effective option in comparison with using an Air Circuit Breaker.



### Metering

All of the incoming and outgoing device hinged doors of the Modis 25 Powerboard system have the option to have panel mounted meters installed with the current transformers mounted integral to each device.

# Modis 25

## Powerboard

## Product Technical Specification

<b>Manufacturer</b>	<b>Dorman Smith Switchgear Limited</b>
<b>Product</b>	Modis 25 Powerboard LV Switchboard
<b>Standards</b>	BS EN 61439-2:2011 EN 61439-2:2011 IEC 61439-2:2011
<b>Forms of Separation</b>	Form 4b Type 6 as standard Group mounted and compartmentalised options available
<b>IP Rating: External</b>	IP3X to IEC 60529
<b>Construction: Frame</b>	2mm gauge folded, painted and pre-plated steel
<b>Construction: Cover plates</b>	1.6mm screw fixed, painted and pre-plated steel
<b>Construction: Integral segregation</b>	Plated sheet steel, perforated sheet steel or transparent polycarbonate sheet
<b>Cabling access:</b>	Suitable for front or rear access Cabling entry via top or bottom
<b>Busbars: Material</b>	HDHC copper with multiple laminations per phase
<b>Busbars: Mounting</b>	4-pole air insulated glass fibre reinforced moulded supports
<b>Busbars: Shielding</b>	Non-conductive rigid insulated barriers or rigid sheet steel barriers
<b>Busbars: Fault withstand ratings</b>	1250A Version: 50kA for 1 second 1600A Version: 50kA for 1 second
<b>Front Access: Maximum Cable sizes (Using narrow palm width lugs)</b>	Loadline YB1 MCCB: 1 x 95mm <sup>2</sup> Loadline YA3/YB3 MCCB: 1 x 120mm <sup>2</sup> Loadline YA5 MCCB: 1 x 185mm <sup>2</sup> Loadline YA6 MCCB: 2 x 300mm <sup>2</sup> Loadswitch 63-200A: 1 x 150mm <sup>2</sup> Loadswitch 400A: 1 x 300mm <sup>2</sup>
<b>Rear Access: Maximum Cable sizes (Using narrow palm width lugs)</b>	Loadline YB1 MCCB: 1 x 95mm <sup>2</sup> Loadline YA3/YB3 MCCB: 1 x 120mm <sup>2</sup> Loadline YA5 MCCB: 2 x 240mm <sup>2</sup> Loadline YA6 MCCB: 2 x 300mm <sup>2</sup> Loadswitch 63-200A: 1 x 150mm <sup>2</sup> Loadswitch 400A: 2 x 300mm <sup>2</sup>
<b>Earthing</b>	HDHC Copper bar 30kA Conditional rating
<b>Rated Operational Voltage</b>	415V
<b>Power frequency withstand voltage</b>	1890V
<b>Impulse Withstand Voltage</b>	6kV
<b>Rated Operational Current</b>	Project Specific
<b>Paint Finish</b>	Light Grey RAL 7035 semi-gloss
<b>Paint depth</b>	40-60 microns
<b>Paint Process</b>	4-stage process that includes chemical spray degreasing, iron phosphate coating, automatic electro-static epoxy polyester film application and curing in a high temperature oven.



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