



**PREFORMED** LINE PRODUCTS



*Providing switchgear solutions for 30 years*

**AEM Switchgear Overview Brochure**



**The connection you can count on**



## Trusted Utility Partners

- Ausgrid
- Transgrid
- Endeavour Energy
- Essential Energy
- Powerlink
- Energy Queensland (Energex and Ergon)
- South Australian Power Network (SAPN)
- AusNet Services
- ElectraNet
- Western Power

## Key Projects

- Lismore Substation (NSW)
- Marulan Substation (NSW)
- Collector Windfarm (NSW)
- Avoca Substation (NSW)
- Beaconsfield Substation (VIC)
- Cherry Tree Windfarm (QLD)
- Christmas Creek Substation (WA)
- Cloudbreak Substation (WA)
- Darling Down Solar Farm (QLD)
- Denham Court (NSW)
- Noraville Substation (NSW)
- Pine Creek Substation (NT)
- Roy Hill Substation (WA)
- Sapphire Windfarm (NSW)
- Forrestfield Airport (WA)
- Khancoban Substation (NSW)
- Long Jetty Substation (NSW)
- Toowoomba Distribution (QLD)
- West Gate Bridge Tunnel (VIC)
- Woy Woy Substation (NSW)
- Yanco Substation (VIC)
- Yass Substation Hydro (TAS)



## AEM Switchgear Solutions

AEM have been designing, manufacturing and installing switchgear since it began operating in Australia in 1989. Preformed Line Products purchased AEM in 2012, and have continued to provide quality switchgear solutions throughout Australia, New Zealand and Asia.

PLP's AEM switchgear range has a reputation in the transmission and distribution markets for high-quality products, trusted services, on-time delivery, easy installation, technical support and short lead times.

### Transmission Switchgear

The complete package includes:

- Disconnectors
- Earth Switches
- Power Operators
- Structures
- Installation and Engineering Services
- A range of insulator options
- Fully assembled or flat-pack options are available

AEM Transmission Switchgear have a proven safety and reliability record, providing a quality long-life disconnector for outdoor transmission substations.

PLP's local engineering team can design structure heights, spacing and insulator configurations to suit site and operation standards.

Rated up to 4000A continuous current and fault withstand up to 50kA rms for 1 second (125kAp), with remote automatic operation and associated earth switches.

### Distribution Underground Link Boxes

AEM Link Boxes are designed to help eliminate or minimise circulating sheath currents caused in underground power cables. This is done by rearranging the position of the cables relative to each other at every joint bay.

Link Boxes are designed locally and type tested to UK EA engineering recommendations C55/4.

A range of options are available for cross bonding, single point bonding and earthing. Insulator and SVL fittings can also be included.

All link boxes are routinely pressure tested (100kPa/15min) before delivery.

Short Circuit Rating: 50kA/1Sec

- Links: < 5 $\mu$ 0
- SVL Connections: < 10 $\mu$ 0
- Links and earth to furthest SVL: < 30 $\mu$ 0



*Contact one of our specialists today for your switchgear needs or visit our NATA Accredited Testing Laboratory located in Sydney, Australia.*

## Distribution Switchgear – 12kV to 36kV

### Single Phase

- To connect and disconnect single phase cables
- Positive latch mechanism prevents opening during faults, vibration and wind loading
- Easily operated from ground level using a standard extendible hook stick
- Silver plated contact to contact interface for low temperature rise, low maintenance and long life

### Single Insulated Links

- Designed for mounting on the crossarm
- Mounting bracket allows angled or underslung horizontal mounting
- Available in 12kV, 24kV and 36kV with 630A or 1000A options at 25kA/3sec rating



### Single Line Links

- Connects directly onto power cable
- Cost saving option disconnector
- Available in 12kV, 24kV and 36kV with 800A or 1000A options at 25kA/3sec rating



### Double Insulated Links

- Mounted on crossarm horizontally or vertically
- Higher voltage and current rating options available
- Available in 12kV, 24kV, 36kV and 72.5kV with 800A, 1000A, 1250A and 1600A options at 25kA/3sec rating



### Single Phase Disconnector

- Mounted on a crossarm
- Used to disconnect power to electrical products (i.e. Transformers)
- Available in 12kV, 24kV and 36kV with 800A and 1000A options at 25kA/3sec rating



### Three-Phase Air Break

- Mounted on crossarm for easy installation on poles
- Proven safety and reliability record ensures a quality long life network switch
- Fast installation and minimal site adjustment
- Self-wiping contacts ensure low contact resistance and temperature rise
- Handle or auto locking mid pole hook stick operator options are available
- Stainless steel phase bearers and components for corrosion free lifetime even in coastal environments
- Horizontal or vertical mounting options are available
- Minimal maintenance, no periodic field adjustments needed
- Available in flat-pack or complete installation

### Side Break Disconnectors

- Designed for mounting on the crossarm
- Available in 12kV, 24kV and 36kV with 630A, 800A, 1000A and 1250A options at 25kA/3sec rating



### Vertical Break Disconnectors

- Designed for mounting on the crossarm for distribution and transmission substations
- Available in 12kV, 24kV and 36kV with 630A, 800A, 1000A and 1250A options at 25kA/3sec rating



All AEM Distribution Switchgear complies with AS and IEC 62771.102 standards.

A range of Insulator options are available.