

# ***MINIATURE SUBSTATIONS***



# MINIATURE POWER DISTRIBUTION SUBSTATIONS

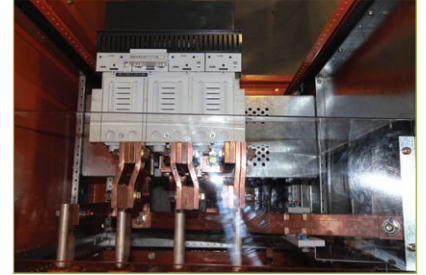
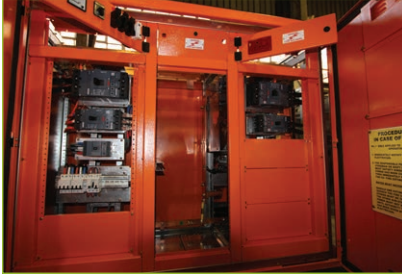


## Standard Coastal 315kVA and 500kVA Miniature Substation

Our miniature substation incorporates either SF6 or Vacuum Circuit Ring Main Units subject to client specification. They meet the requirements of SANS 1874. We offer a range of various brands and makes of RMU's and circuit breakers ranging from Siemens, Lucy, ABB, Eaton, Schneider and LS.

Miniature substations are equipped with high quality oil cooled transformers that comply with SANS 780 and are sourced from local suppliers and manufacturers. Windings can be either copper or aluminium based on customer requirements.

We supply both coastal and inland specifications, manufactured in powder coated mild steel, 3CR12 or 304 stainless steel. Miniature substations are only required to comply with SANS 1029:2010/NRS 004:2010. Our busbars in the miniature substations are based on a type tested design.



Coastal Specification Mini Substation Data Table

Specification	315kVA		500kVA	
	W1	W3	W2	W4
<b>Ring Main Unit</b>				
Standard Configuration	SF6, IDI Schneider Earth Fault Indicator		SF6, IDI Schneider Earth Fault Indicator	
<b>Transformer</b>				
Certification	SABS 780 and NRS 004		SABS 780 and NRS 004	
Windings	Copper	Aluminium	Copper	Aluminium
Primary Rating	11 000V		11 000V	
Secondary Rating	400V		400V	
Type	3 Phase Oil Cooled		3 Phase Oil Cooled	
Vector Group	DYN11		DYN11	
Accessories and Finishings	Dead Break Plugs Oil Temperature Indicator Oil Level Indicator Type C Bushings (Cable Box) 22kV Zinc and Galvanising Coastal Application		Dead Break Plugs Oil Temperature Indicator Oil Level Indicator Type C Bushings (Cable Box) 22kV Zinc and Galvanising Coastal Application	
Tank Material	Mild Steel, Welded Sealed		Mild Steel, Welded Sealed	
<b>LV Compartment</b>				
	Shunt Trip Coil 2 x Phase Barriers 3P MCCB		Shunt Trip Coil 2 x Phase Barriers 3P MCCB	
<b>Busbars</b>	Copper		Copper	
<b>Housing</b>				
Roof	2.0mm 3CR12		2.0mm 3CR12	
Housing Material and Fixtures	2.0mm 3CR12 Earth Straps on Housing Streetlight Panel Provided (Enclosure only)		2.0mm 3CR12 Earth Straps on Housing Streetlight Panel Provided (Enclosure only)	
Panel Material	3CR12 - Powder Coated		3CR12 - Powder Coated	
Doors Material and Fixtures	Protruding doors with concealed hinges and fitted with a restraining device to prevent whipping in windy weather. Earth Straps on Doors Allen Key Bolt, 3 Point Locking Mechanism		Protruding doors with concealed hinges and fitted with a restraining device to prevent whipping in windy weather. Earth Straps on Doors Allen Key Bolt, 3 Point Locking Mechanism	
Paint Thickness	To specifications provided		To specifications provided	
Final Coat Colour	To specifications provided		To specifications provided	
Fasteners	Stainless Steel		Stainless Steel	
<b>Base</b>	76 x 38 x 5 Galvanised and Painted QD Black		100 x 50 x 6 Galvanised and Painted QD Black	

**Note :**

- Detailed required specifications to be submitted with your enquiry.
- Lead times need to be confirmed at the time the order is placed.
- Can be customised to other brands and specifications.
- Above refers to standard coastal specifications.

# MINIATURE POWER DISTRIBUTION SUBSTATIONS

Specialised Solutions Miniature Substations: 630, 800, 1000kVA



Coastal Specification Mini Substation Data Table						
Specification	630kVA		800kVA		1000kVA	
Product Code	W5	W8	W6	W9	W7	W10
<b>Ring Main Unit</b>						
Preferred Make	SF6, IDI Schneider Earth Fault Indicator		SF6, IDI Schneider Earth Fault Indicator		SF6, IDI Schneider Earth Fault Indicator	
<b>Transformer</b>						
Certification	SABS 780 & NRS 004		SABS 780 & NRS 004		SABS 780 & NRS 004	
Windings	Copper	Aluminium	Copper	Aluminium	Copper	Aluminium
Primary Rating	11 000V		11 000V		11 000V	
Secondary Rating	400V		400V		400V	
Type	3 Phase Oil Cooled		3 Phase Oil Cooled		3 Phase Oil Cooled	
Vector Group	DYN11		DYN11		DYN11	
Accessories and Finishings	Dead Break Plugs Oil Temperature Indicator Oil Level Indicator Type C Bushings (Cable Box) 22kV Zinc and Galvanising Coastal Application		Dead Break Plugs Oil Temperature Indicator Oil Level Indicator Type C Bushings (Cable Box) 22kV Zinc and Galvanising Coastal Application		Dead Break Plugs Oil Temperature Indicator Oil Level Indicator Type C Bushings (Cable Box) 22kV Zinc and Galvanising Coastal Application	
Tank Material	Mild Steel, Welded Sealed		Mild Steel, Welded Sealed		Mild Steel, Welded Sealed	
<b>LV Compartment</b>						
	Shunt Trip Coil 2 x Phase Barriers 3P MCCB		Shunt Trip Coil 2 x Phase Barriers 3P MCCB		Shunt Trip Coil 2 x Phase Barriers 3P MCCB	
<b>Busbars</b>	Copper		Copper		Copper	
<b>Housing</b>						
Roof	2.0mm 3CR12		2.0mm 3CR12		2.0mm 3CR12	
Housing Material and Fixtures	2.0mm 3CR12 Earth Straps on Housing Streetlight Panel Provided (Enclosure only)		2.0mm 3CR12 Earth Straps on Housing Streetlight Panel Provided (Enclosure only)		2.0mm 3CR12 Earth Straps on Housing Streetlight Panel Provided (Enclosure only)	
Panel Material	3CR12 - Powder Coated		3CR12 - Powder Coated		3CR12 - Powder Coated	
Doors Material and Fixtures	Protruding doors with concealed hinges and fitted with a restraining device to prevent whipping in windy weather. Earth Straps on Doors Allen Key Bolt, 3 Point Locking Mechanism		Protruding doors with concealed hinges and fitted with a restraining device to prevent whipping in windy weather. Earth Straps on Doors Allen Key Bolt, 3 Point Locking Mechanism		Protruding doors with concealed hinges and fitted with a restraining device to prevent whipping in windy weather. Earth Straps on Doors Allen Key Bolt, 3 Point Locking Mechanism	
Paint Thickness	To specifications provided		To specifications provided		To specifications provided	
Final Coat Colour	To specifications provided		To specifications provided		To specifications provided	
Fasteners	Stainless Steel		Stainless Steel		Stainless Steel	
<b>Base</b>	100 x 50 x 6 Galvanised and Painted QD Black		180 x 70 x 10 Galvanised and Painted QD Black		180 x 70 x 10 Galvanised and Painted QD Black	

**Note :**

- Detailed required specifications to be submitted with your enquiry.
- Lead times need to be confirmed at the time the order is placed.
- Can be customised to other brands and specifications.
- Above refers to standard coastal specifications.