

The AT series Medium Voltage heavy-duty substation for outdoor installation is a free standing, containerised unit, specifically designed for job site electrification.

- It is completely self contained and is easily movable. It can be lifted with the transformer fitted
- The substation is provided with MV switchboard, transformer and LV switchboard, designed to suit customer requirements

## CONSTRUCTION

The AT substation, which is painted both outside and inside is totally enclosed and is completely water proof for outdoor installation. The structure is fully sealed with panels manufactured from 2.5 mm thick steel plate reinforced as appropriate.

The transformer is installed into a totally separate section accessible through independent outside end doors. A removable roof section above the transformer allows lifting by crane if required. Access to the LV switchboard panels is through personnel doors in the side of the container. All substation doors are mounted with inox steel hinges. All bolts, screws and mechanical devices have anti-corrosion treatment.

All the internal equipment is provided with mechanical safety interlocks in order to avoid dangerous situations arising.

### Standards

EN61330  
EN60529  
EN60439-4  
IEC 60909  
IEC 60865



## SIZE AND POWER AT SERIES (1600-3500 kVA)

SIZE 1	(LxDxH)	mm	4540 x 2400 x 2590
SIZE 2	(LxDxH)	mm	6058 x 2400 x 2590
SIZE 3	(LxDxH)	mm	7500 x 2400 x 2590
SIZE 4	(LxDxH)	mm	9125 x 2400 x 2590
SIZE 5	(LxDxH)	mm	12190 x 2400 x 2590

## PAINTING

- The substation is painted and finished to the following specification:
- sandblasting of all surfaces
  - one coat rust-preventative epoxy type paint, 40 micron thick
  - two coats, air-dried epoxy enamel, 60 micron thick, colour standard RAL 1006 yellow
  - the roof and underside are covered by an additional coat of bituminous paint

## GENERAL TECHNICAL DATA

Rated system voltage	KV	12-24-36
Insulation level at 50 Hz for 60 seconds	KV	28-50-70
Impulse insulation level	KV	60-125-170
Rated frequency	Hz	50-60
Rated secondary voltage	V	Value on request
Highest capacity of transformer	KVA	3500
Auxiliary voltage	Vac/Vdc	230 Vac/24-48 Vdc
Enclosure (with cabinet closed)	IP549 - IPH6	
Operating ambient temperature	-10 / +40°C	
Humidity (non condensing)	Rh 85%	
Transformer	Mineral oil or cast resin dry-type	



# OSC SERIES

# OPEN SKID CONTAINER

Open skid container suitable to house mineral oil transformer up to 4000 KVA

