

BlueB Energy

Containerized Transformer Substation



Build in partnership with

///elvosolar

/ energy systems

Outdoor Containerized Substation

- Manufactured for outdoor and construction site installation
- Free-standing containerized unit, easy to move and turnkey installed
- Provided with M.V. switchgear, transformer and L.V. switchgear and possibly PFC unit, alternatively with any technology
- Equipped with safety equipment
- Designed to suit the customer's requirements
- Doesn't require a building permit



Safety and reference standards

- MV/LV transformer substations comply with European and International Standards
- Monitoring & Control as standard feature
- Protect operating personnel against atmosphere
- MV Switchgear, LV switchgear and Distribution transformer are segregated by sheet steel partition
- Easy to escape from fire accident
- Provides high degree of protection against ingress of solid foreign objects
- Fitted with mandatory safety interlocks
- Complete sheet steel housing is readily earthed

Features of Construction

Service and environmental conditions

External temperature (min/max)	-20° ÷ +50 C°
Irradiation	500 w/m ²
Maximum wind speed	140 km/h
Maximum snow load on the horizontal projection at 1000 m	220 Kg/m ²
Severe seismic activity	AF 5
External Protection class	IP55

STANDARD DIMENSIONS (ISO)*

Container (feet)	10	15	20
Length (mm)	2991	4550	6058
Height (mm)	2438	2200	2438
Width (mm)	2591	2260	2591

*Other dimensions available on request.

Electrical Features

Transformer compartment

The MV/LV transformer substation is supplied with a cast resin transformer. Oil or air insulated transformers are also available on request. The transformer installed may be from 100kVA to 2500kVA.



Medium Voltage Switchgear Main Electrical Features

Rated voltage	12 kV	17,5 kV	25 kV
Power frequency withstand voltage (50-60 Hz 1 min.) towards the ground and between phases	28 kV / 32 kV	38 kV / 45 kV	50 kV / 60 kV
Rated lightning impulse withstand voltage towards the ground and between phases	75 kV / 85 kV	95 kV / 105 kV	125 kV / 145 kV
Rated current	400-630 A		
Short time withstand current 1 sec on main circuits and earth circuits	12,5-25 kA		
Internal arc withstand 1 sec	12,5-21 kA		

L.V. Switchgear Main Electrical Features

Rated voltage up to	400 - 1000 V
Rated current	up to 3200 A
Rated short circuit current	75 kA
Rated short-term withstand current	75 kA
Rated peak withstand current	125 kA
Rated impulse voltage	8 kV
Rated frequency	50-60Hz



Fittings & accessories,
Features and Contact



Fittings & Accessories

Accessory electrical equipment

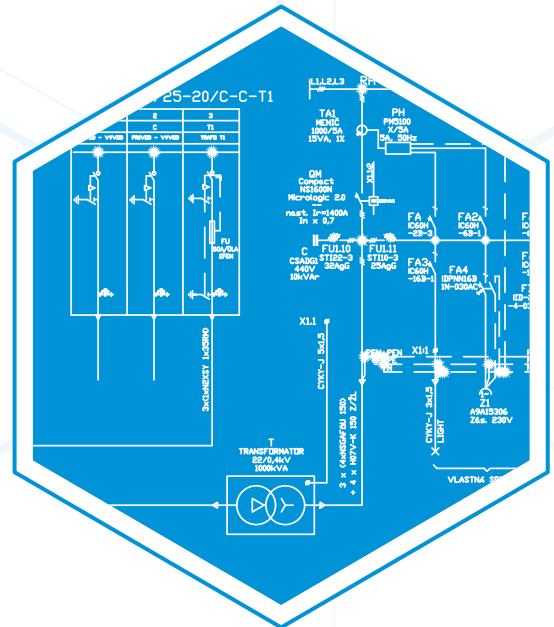
- Monitoring & Control for MV and LV equipments
- Utility measurement box (internal or external)
- Fixed PFC
- Automatic PFC (optional)
- UPS (Uninterruptable Power Supply)
- Fire detection and extinguishing (optional)

Internal accessories and auxiliary installations

- Lighting installation with electric switch
- Interlocked socket 230 Volt - 16A
- HVAC (optional)
- Accident prevention accessories: powder extinguisher, recharging emergency lighting, insulated carpet, warning notice, substation electrical drawing

External cabinet accessories

- Flashing warning light (IP55)
- Emergency pushbutton under glass



Features

- In accordance with European and International Standards
- Prefabricated substation contains MV and LV switchgear panels with distribution transformer to provide comprehensive solution
- Containerized by Containex products range
- Ease of transportation and ready to relocate
- Ready for installation and commissioning
- Compact and robust design
- Equipped with high quality MV and LV equipments manufacturers (Schneider Electric, Siemens, ABB, etc.)
- Wide range of factory designed options
- Easy accessibility
- Reliable and minimal maintenance
- Reduce construction cost
- Reduce transportation cost
- Reduce inter-equipment cabling cost
- Minimum space required for installation



**BlueB
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