

PREFABRICATED SUBSTATION UNIT



- FRIENDLY SOLUTIONS
- EASY AND SAFE TO OPERATE
- ECONOMICAL - COMPACT
AND SPACE SAVING DESIGN
- FULLY TYPE TESTED
- ACCORDING TO IEC 61330



Your Ultimate Solution To Your Distribution Network

EPE Wilson Transformer Sdn Bhd

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Arab-Malaysian Industrial Park,
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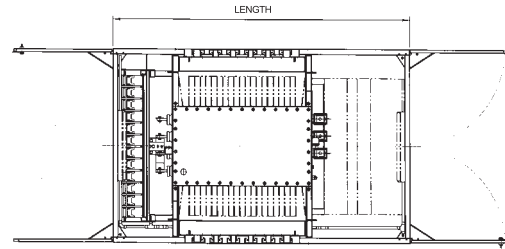
EPE Wilson Transformer Sdn Bhd

The EPE Wilson Transformer (EWT) Prefabricated Substation Unit, Model EPS Series has been designed to fulfill the customer's needs.

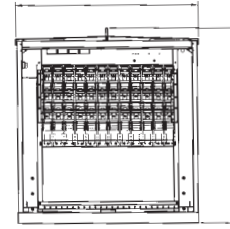
Equipped with : 1) SF6 Ring Main Unit Switchgear
2) Distribution Transformer
3) LV Switchboard

Advantage

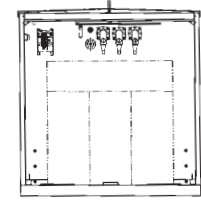
- 1) Easy access to the RMU and LV Switchgear for operation.
- 2) Separable plug-in type connector at transformer HV side and RMU connections for fast installation.
- 3) Provision for maximum safety in public area.



PLAN VIEW



LOW VOLTAGE COMPARTMENT



HIGH VOLTAGE COMPARTMENT

11kV High Voltage Ring Main Unit (2 nos. Switch Disconnector & 1 no. of Fuse Switch)

RATING	500kVA	1000kVA
Rated Voltage (kV)		12
Withstand Voltage at 50 Hz for 1 min (kVrms)		28
Impulse Withstand Voltage 1.2/50ps (kV peak)		75
Frequency (Hz)/No. of Phase		50/3
Load Break Switch (nos.)		2
Rated Current of Switch Disconnector (A)		630
Fuse-Switch (nos.)		1
Rated Current of Fuse-Switch (A)		200
Fuse Rating for Fuse-Switch (A)	50	80

Distribution Transformer

RATING	500kVA	1000kVA
Voltage Ratio at No Load (V)		11,000/433
Off Circuit Tapping at HV (%)		±2.5, ±5.0
Withstand Voltage at 50Hz for 1 min (kVrms)		28
Impulse Withstand Voltage 1.2/50 ps(kV peak)		75
Frequency (Hz)/No. of Phase		50/3
Vector Group		Dyn11
Type of Cooling		ONAN

415V Low Voltage Switchboard - DIN Standard

RATING	500kVA	1000kVA
Rated Current (A)	800	1600
Rated Voltage (V)	1000	1000
Incoming Disconnector (A)	800	1600
Outgoing Fuseway (A) (at 20°C)	400	400
Fuseway Nos	6	10
Frequency (Hz)/No. of Phase	50/3	50/3
Outgoing Fuse Rating (A)	160A-NH1	160A-NH1
Current Transformer Ratio	800/5A Class 1	1600/5A Class 1
Ammeter Max. Demand Indication	3 nos	3 nos
Power Factor meter (30 mins)	1 no	1 no
Kilowatt Hour Meter (Class 2) (Induction Type)	1 no	1 no

Internal Arc Tested as per IEC 1330 Clause 6	18.4kA at 1 second
Temperature Rise Tested as per IEC 1330 Clause 4.1	Class 10 enclosure
Index Protection (IP) Tested as per IEC 529	IP 35
Sound Level Tested as per IEC 1330 Clause 6	60 dBA
Material / Thickness	Electro Galvanised Sheet / 3.0mm
Base Frame	Hot Dipped Galvanised C-Channel

Overall Dimension		Rating	
		500(kVA)	1000(kVA)
Length	(mm)	2745	2745
Width	(mm)	1725	1725
Height	(mm)	1815	1815
Total Weight	(kg)	3795	4610

Note: For other rating, please consult us.

Enclosure

General Arrangement