



Innovation Partner **SAFVOLT** UK

Switch on Safety
Switch on Safvolt



COMPACT SUB STATION

SAFVOLT[®]

SAF⁺ Series

COMPACT SUB STATION (CSS)



SAFVOLT CSS are available upto 33kV and 2500 kVA, offers a high tech standard and economy over the years for the switchgear manufacturer with dependability, reliability and versatility.

SAFVOLT SAF⁺ Series Compact Sub Station is a compact arrangement, which simplifies conventional substation design.

Substation is divided into three compartments

- i) HV Compartment
- ii) The Transformer Compartment
- iii) LV Compartment

CHOOSE YOUR CONFIGURATION

SAFVOLT SAF⁺ Series Compact Sub Station has the following configurable components to choose by the customers.

HV Compartment	Transformer Compartment	LV Compartment
<ol style="list-style-type: none"> 1. Extensible & Non Extensible 2. MV Switchgear - Ring Main Unit (RMU) 3. Vacuum / SF6 Circuit Breaker 4. RMU & HV Fuse 5. RMU and Load Break Switch 6. Protection & Metering Devices 7. Current & Potential Transformer for Metering / Protection 	<ol style="list-style-type: none"> 1. Oil Immersed Transformer 2. Dry Type Transformer (CRT/VPI) ~ Transformer Rating depends on the customer requirement. 	<ol style="list-style-type: none"> 1. LV Distribution Board 2. LT Control Panel with 3. Incomer ACB & Outgoing MCCB 4. APFC Panel with capacitor banks 5. LV Switch fuse Units 6. Instrumentation and Metering Options

SALIENT FEATURES

- Design Conforms to IEC 62271-202, IEC 1330(1995) and IS 14786:2000 Standards.
- Fully Compartmentalized Design.
- IP 4X/ IP 5X degree of protections available.
- Designed to withstand electrical impulses, thermal and dynamic stresses.
- Compact and occupies less floor space.
- Available in both Indoor and Outdoor Versions.
- Tailed configuration to meet customer requirements.
- SCADA Compatible.
- Adequate Illumination and Safety Switches & Theft proof Designs.
- Easy to transport, ready to install and operate.

MAIN ADVANTAGES OF OUR CSS

- Compact, Safety and Aesthetically superior
- Reduced Electrical losses as CSS can be provided near the Load Center
- A High degree of safety and operational reliability is achieved by HT & LT Switchgears and protective relays to avoid overloading
- Reduction in logistic cost as USS is packaged and delivered as one unit
- Low Civil/Foundation Cost

APPLICATIONS

Our CSS are ideally suited indoor as well as outdoor applications and can be placed on Ground, partially or totally below or above ground level.

Mainly used by

- Residential Complexes
- Power Utilities
- Multiplexes
- Hotels
- Hospitals
- Shopping Malls
- Software Parks & Airports
- Construction sites
- Exhibitions and
- Open cast mines as mobile substation, either on truck or skid mounted

STANDARD VARIANTS

We regularly produce the following standard variants other than the customer specific requirements. Refer the selection table and quote the model for easy communication.

DIMENSIONS

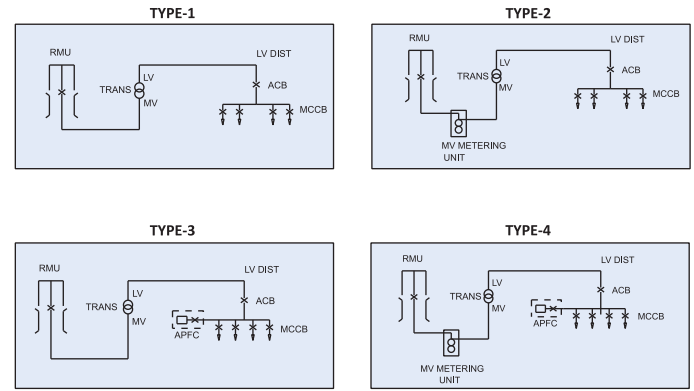
Do you have a car parking, our CSS will fit in there!, as the dimensions are depends on configuration, we will share you the details during our detailed technical offer. And do you have space constrains? Contact us we will propose our modified design to suit your requirements.



Technical Data

Degree of Protection	IP 4X / 5X *
Duty	Indoor / Outdoor
Type of Ventilation	Natural / Forced
Standard Colour	Red and Grey #
Rated Voltage	12 kV/24kV/36kV
Rated Power Frequency withstand Voltage	28 kV/50kV/70kV
Rated lightning Impulse withstand Voltage	75 kV/95kV/170kV
Temperature Class	Class H
Earthing system	upto 26.3kA
* Higher degree of protection shall be provided on request. # Other color shades shall be provided on request.	

Standard Types



DESIGNING, MANUFACTURING AND MARKETING OF Compact Sub Stations



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