

ResQ Power

(Reliable, Economical, Safe & Quality Power)

**Complete Power Solution For Your
Electrical Distribution Network**



2000 kVA PSS

Package Sub-Station



Introduction

ResQ Power Compact Sub Station is designed to provide Reliable, Economical, Safe & Quality (ResQ) Power solution for growing cities, industrial plants residential & commercial building, solar power projects, outdoor or indoor lighting and other general purpose applications with reduced space availability

The 11kV, 22kV or 33kV CSS Comprises of 3 Compartments:

- HT Side consisting of RMU / VCB
- Transformer Compartment (Oil / Dry Type)
- LT Side consisting of the LT Panel

Product Overview

The Compact Sub-Station (CSS) is also known as Unitized Sub-Station (USS) or Packaged Sub-Station (PSS). The Compact Sub-Station is a compact arrangement, which replaces conventional sub-station arrangement consisting of Load Break Switch / Vacuum Circuit Breaker, Transformer, Distribution Panel, Lightning arresters mounted on a pole structure or on a platform.

CSS is a prefabricated substation, tested and ready-to-install and is fully compliant with IEC 62271-202 (IEC 61330).

CSS is designed, keeping in mind the personal safety & aesthetics, considering HT equipment is located in high density urban places. It is a prefabricated secondary sub-station consisting of three compartments (i.e.) H.V. Compartment which houses Vacuum Circuit Breaker (VCB) or Load Break Switch (LBS), the transformer compartment which houses dry type /oil cooled transformers & the LV compartment which houses ACB, MCCB, SFU etc. as per client's requirement. All components are housed in an enclosure which protects the equipment against environmental hazards & unauthorized access. The electrical equipments are cooled by natural ventilation.

Technical Specifications

Applicable Standard	IEC 62271-202
Rated Voltage	12 / 17.5 / 24 / 36 kV
Power Frequency Withstand Voltage (kVrms, 50Hz, 1 min.)	28 / 38 / 50 / 70 kV
Power Impulse withstand voltage (kV Impulse, 1.2/50 μ s)	75 / 95 / 125 / 170 kV
Frequency	50Hz
Duty	Indoor / Outdoor
Type of Ventilation	Natural
Standard Color	ResQ Standard #
Transformer Rating	Up to 2500 kVA
Transformer Type	Oil / Dry
On Load Tap Changer	Optional
HT & LT IP Class	IP 54
Transformer Chamber IP Class	IP 23D*
Rated Enclosure Temperature Class as per IEC 61330	K10
# Other color shades shall be provided on request.	
* Higher degree of protection shall be provided as per customer request.	

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Features / Advantages

- 3 in 1 Solution as single Unit
- Ready to use Plug & Use concept
- Ease of Installation, Operation & Maintenance
- SCADA Enabled Remote Monitoring & Operation
- Compact Design for reduced Foot Print
- Anti-Theft & prevents Unauthorised Access
- Independent access for all the compartments for routine maintenance
- Ensures safety for operator, public and environment
- Availability of both options : walking and non-walking type
- Customized design to suit site conditions

Over all Dimensions

kVA	(L x W x H) in mm
Up to 250	3250 x 1725 x 2100
315 to 400	3250 x 1750 x 2350
500, 630 & 800	3400 x 2200 x 2450
1000 & 1250	3360 x 2200 x 2550
1500 & 1600	3500 x 2300 x 2550
2000 & 2500	4850 x 2300 x 2850

CSS Variant

