



PRODUCT CATALOGUE

Ring Main Unit

RMU-24-630A

▼ Application



Oil & Gas Plant



Health



Railway



Steel Plant



Mining



Underground



Smart City



Wind Energy



Solar Energy

(note: subject to change without any notice, JDA pay no responsibility)

About

The Ring Main Unit (RMU) is a compact design for smart secondary distribution solutions. The RMU is characterised by its high level of operational safety & suitable for applications up to 36kV. It has been designed & developed using State of the Art technology for optimal performance in a range of applications, from diverse industrial requirements to power generation & distribution. A range of RMUs are provided with proven Vacuum Interrupters along with Numerical Self Powered Relays & accessories like Feeder Remote Terminal Unit to ensure reliability & SCADA compatibility.



Features

- Robotically welded, 3 mm thick Stainless Steel Gas Tank ensuring leak free operations.
 - Compact design for Indoor/ Outdoor applications, without Kiosk.
 - Non extensible, Extensible and Modular range including Metering facilities.
 - Vacuum Interrupter technology for Circuit Breakers with 3 position disconnecting switches.
 - Fully interlocked operation & Padlocking facility to ensure operator's safety.
 - Motorised Operations & Easy Integration with SCADA through FRTU for Remote Monitoring & Control.
 - Internal arc classified & fully certified as per IEC standards.
- RMU with own make of Vacuum Interrupters & Self Powered Relays.
 - Intuitive single line mimic diagram for simple & safe operations.





Applications

Building Infrastructure:

- Smart City Projects
- Malls, Shopping Centres, Residential Complexes, Hotels, Data Centres, Stadiums
- Airports, Railways, Ports, Hospitals

Power Sector:

- Distribution of Power: Ring Network, Underground Cabling
- Renewable Energy: Wind/ Solar Energy

Industrial Sector:

- Water & Waste Water, Mining, Minerals, Iron & Steel, Cement & Petroleum, Oil & Gas

Applications

- Self Powered Relay
- Voltage Presence Indicator System (VPIS)
- Fault Passage Indicator (FPI)/ Earth Fault Indicator (EFI)
- SF6 Gas Pressure Manometer
- SF6 Low Gas Pressure Switch
- Multi Function Meters (MFM)
- Motorization kit for automation
- Feeder Remote Terminal Unit (FRTU: USP-020i) for fully Automated RMU
- Modem with Antenna
- Battery with Battery Charger

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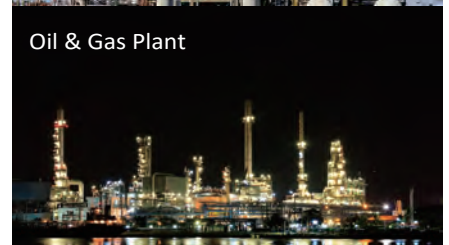


Industrial Sector

Steel Plant



Oil & Gas Plant

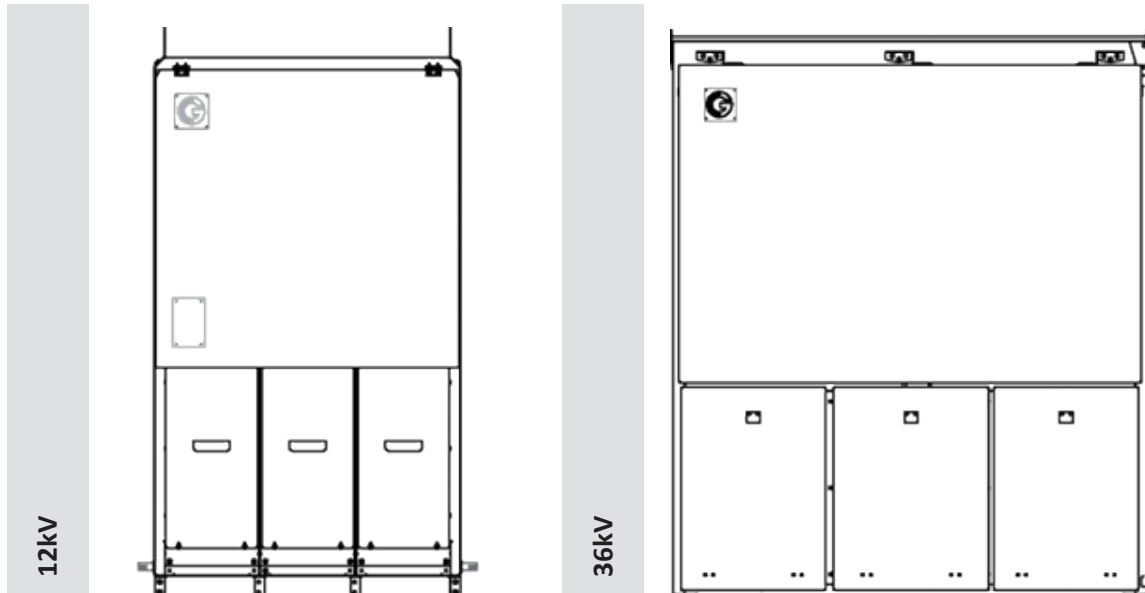


Mining





Configurations



Dimensions (in mm)

Description	12kV			36kV		
	W	H	D	W	H	D
Single Way (V/S)	406	955	1086	825	1750	2125
Three Way	1088	955	1086	1750	1750	2125
Four Way	1433	955	1086	2325	1750	2125

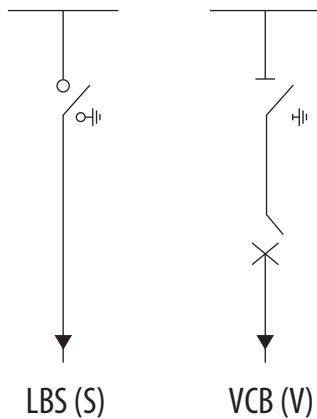
* Note: Dimensions of the unit may vary as per the features and facilities incorporated.

Standards Compliances & Certifications

Standard	IEC 62271-100	IEC 62271-102	IEC 62271-103	IEC 60529
Component	Vacuum Circuit Breaker	Earthing Switch	Switch Disconnector	Degree of Protection



Module Types



S: Load Break Switch / Isolator

V: Vacuum Circuit Breaker

Ss: Busbar Sectionaliser with Switch

Sv: Busbar Sectionaliser with Vacuum Circuit Breaker

D: Direct Cable Connection

M: Metering /PT Panel (Air Insulated)

*Any combinations can be formed from above modules to meet site requirement.

Technical Specifications


Characterstics	Value	
Rated Voltage (kV)	12kV	36kV
Rated Current (A)	630 A	630 A
Rated Frequency (Hz)	50 Hz	50 Hz
Power Frequency for 1min		
Between Ph & Ph to earth (kV)	38 kV	70 kV
Isolating Distance (kV)	45 kV	80 kV
Lightning Impulse		
Between Ph & Ph to earth (kVp)	95 kVp	170 kVp
Isolating Distance (kV)	110 kV	195 kV
Rated Short Circuit Current		
Breaking Capacity (kA)	21 kA rms	26.3 kA rms
Making Capacity (kAp)	52.5 kAp	65.75 kAp
Short Time Withstand Current	26.3 kA for 3s	26.3 kA for 3s
Internal Arc- AFLR	21 kA for 1s	26.3 kA for 1s
Operating Duty Cycle for Breaker (Duty Cycle)	O-3min-CO-3min-CO	O-0.3s-CO-3min-CO
IP Rating		
Main Tank	IP 67	IP 67
Enclosure	IP 54	IP 54
Cable Termination (LBS/ VCB)	Front Bottom	Front Bottom

NOTE: CG continuously strives to improve its products & services. The technical information included in this document is subject to change without any notice.



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