

NQUBE-N Outdoor Compact Substation



NQUBE-N is part of the wide range of product offerings from TAMCO. It is a compact MV/LV substation for outdoor application, designed in line with IEC 62271 - 202. It functions as a substation in secondary distribution networks. Incorporating TAMCO's standard electrical components, NQube provides maintenance-free operation throughout its life-span.

NQUBE-N is:

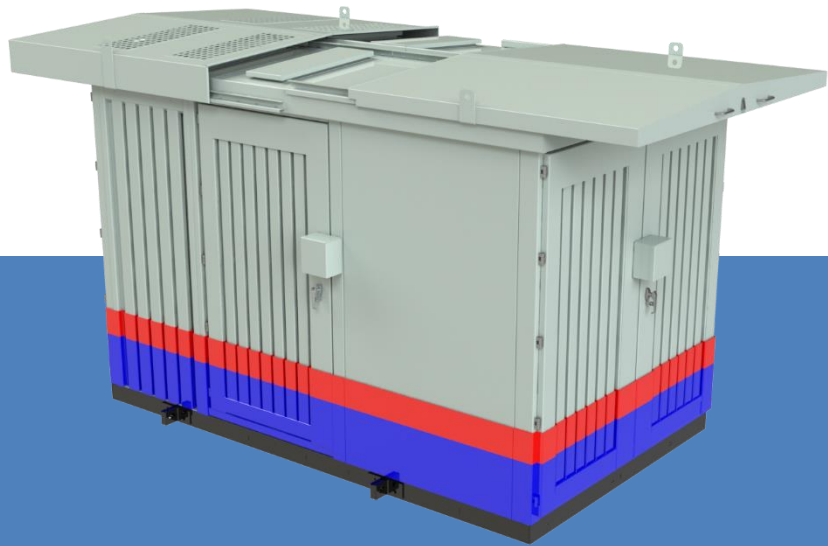
- Modular & compartmentalized
- Reinforced with specially designed ventilation system
- Completely safe for operators
- Ready for installation & network connection
- SCADA compatible & ready to use in smart grid

The foundation of TAMCO is built around innovation, technology, intelligence and flexibility, combined with the highest quality. TAMCO products satisfies all the latest international standards. Your power needs are satisfied by our promise to optimum results; enhanced safety, greater reliability, operating cost efficiencies, effective use of capital, and superior performance.



Key Features

- Ready to use substation
- TAMCO's compact and proven RMU
- No prior civil work required
- Large cost saving since construction of substation is not required
- Fully assembled and factory tested in factory
- All control and protection interfacing wiring are done in factory
- Option for SCADA system interfacing
- Retractable roof for personnel/component protection during rain when operation or maintenance is required. It can support upto 250kg/m²
- Enclosure base frame made of hot-dipped galvanized steel
- Customisable design to cater various customer needs



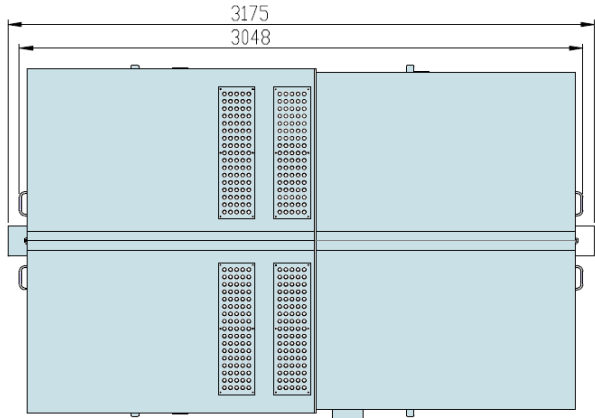
NQUBE-N is TAMCO's compact substation consists primarily three major components:

- MV Switchgear
- Transformer
- LV & Control Switchboard

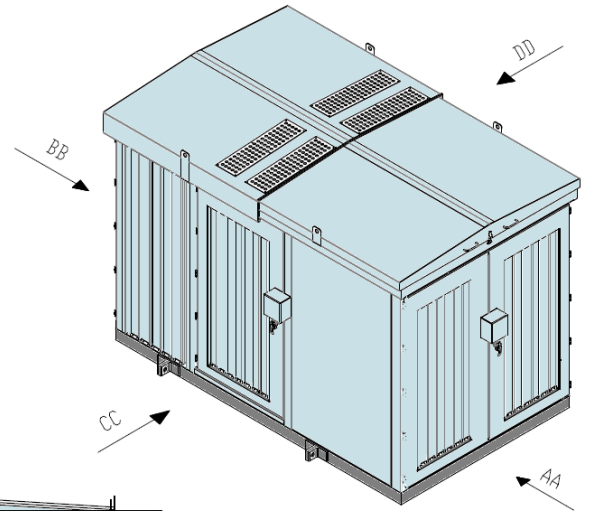
For operator's safety, during the unlikely events, NQUBE-N is IAF proven for Class IAC-B-20 kA-0.1s. For operation and maintenance, the access to the equipment is only through lockable doors provided on either sides. This prevents any unauthorized access to the equipment.

The equipment is type tested as per the relevant IEC standards at international laboratories.

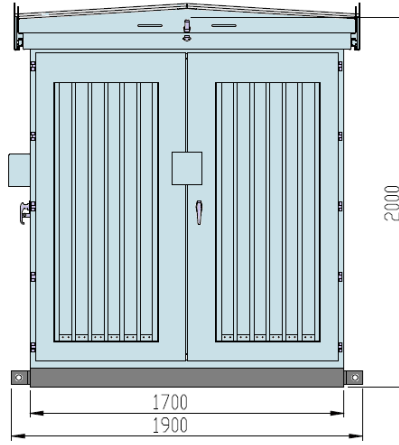
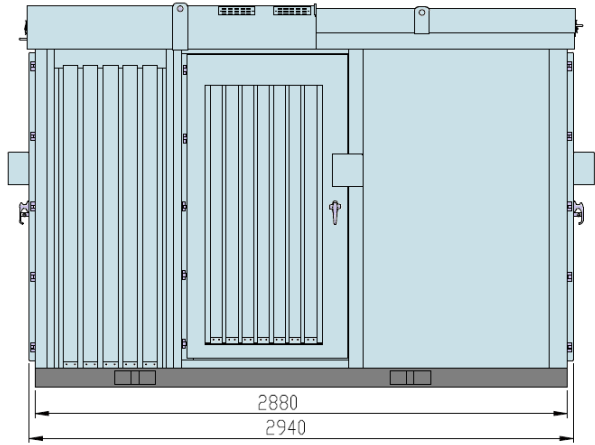
GENERAL ARRANGEMENT



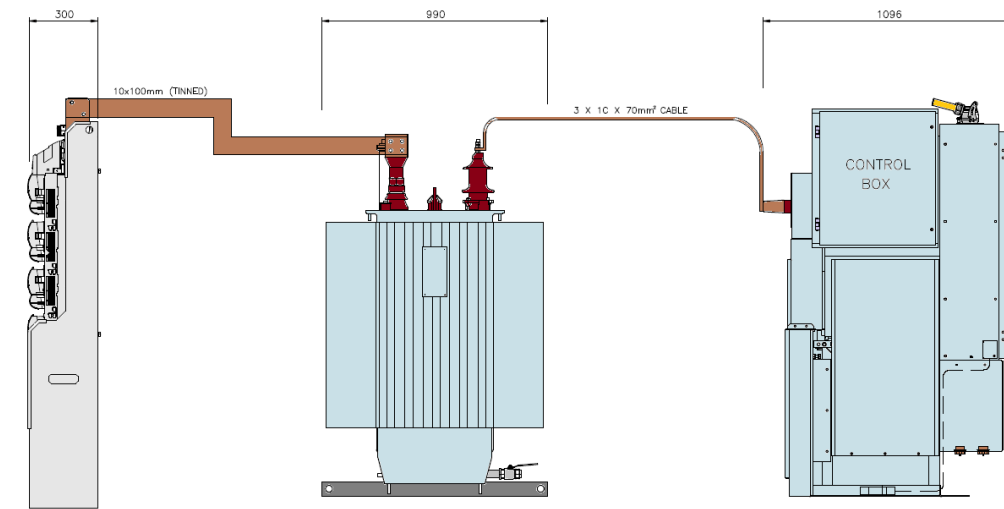
TOP VIEW



ISOMETRIC VIEW



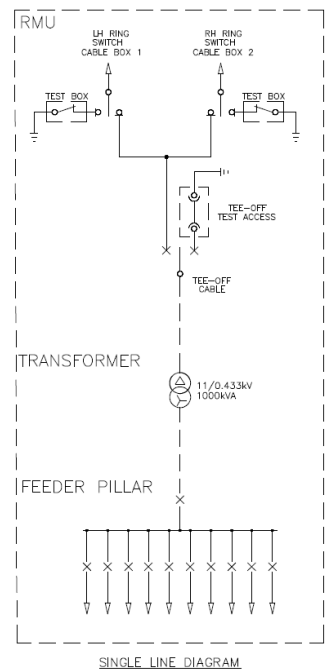
COMPONENTS LAYOUT

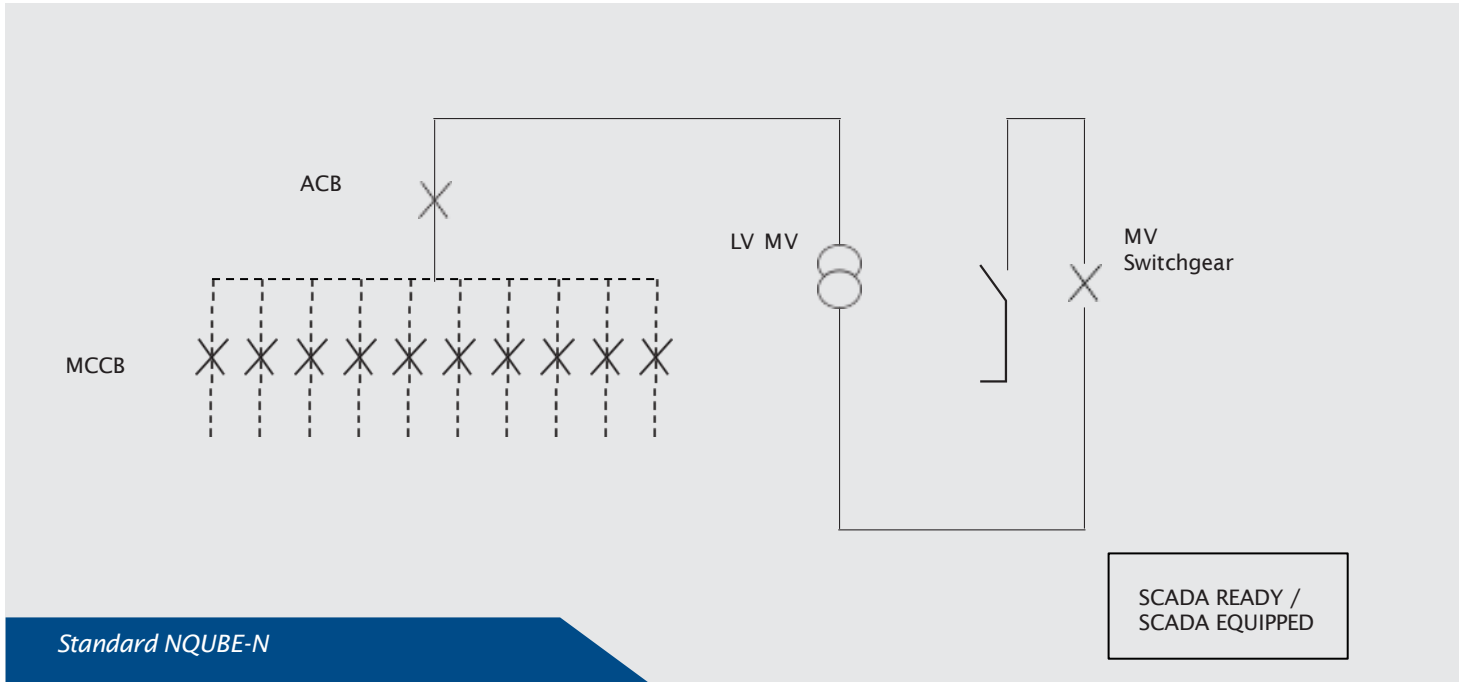


qc; SIDE VIEW FOR FEEDER PILLAR

qc; SIDE VIEW FOR TRANSFORMER (1000kVA)

qc; SIDE VIEW FOR RMU GR1-21





Standard NQUBE-N

LV switchgear

- Rated up to 1600A, 400V
- Completely customizable
- With standard components i.e. Air Circuit Breakers, Molded Case Circuit Breakers etc.
- Flexibility in arrangements & configurations
- Maximum 10 nos. of outgoing MCCB feeders with one incomer ACB feeder

Transformer

- Up to 1000kVA
- Hermetically sealed corrugated type oil transformer
- Minimal losses
- Off Load Tap Changing
- On load Tap Changing OLTC with RTCC and AVR
- Max. Winding Temp 60°C

MV switchgear

- TAMCO 11kV, 630A, RMU
- Robotic welding of gas duct ensuring leakage free operation
- Internal arc fault tested for 20kA, 1S complying with AFLR
- Ample space for CT mountings
- Minimal maintenance & sealed for life contact system
- No exposure to live parts

Enclosure

- Internal arc Class IAC-B 20kA for 0.1sec
- Temperature rise classification – CLASS 5
- Ingress protection IP35
- Noise level less than 60dB at full load condition
- Retractable roof
- Padlockable doors to prevent unauthorized access.



TAMCO Switchgear (Malaysia) Sdn Bhd

Sublot 24, Lot 16505, Jalan Keluli 1, P.O.Box 2100, Kawasan Perindustrian Bukit Raja Seksyen 7 40802 Shah Alam, Selangor Darul Ehsan, MALAYSIA
 Tel.: +603-3361-8200 Fax: +603-3341-6200
 Email: sales@tamco.com.my Website: www.tamco.com.my

Global Network Offices

Malaysia, Australia, Indonesia, KSA, UAE, Qatar, Oman, India

The information contained herein is correct at the time of printing, but as TAMCO's products and manufacturing processes undergo continuous development, this information is subject to change without notice, and the company cannot be held liable for any alleged misinterpretation howsoever arising.