

NQube

Outdoor Compact Substation

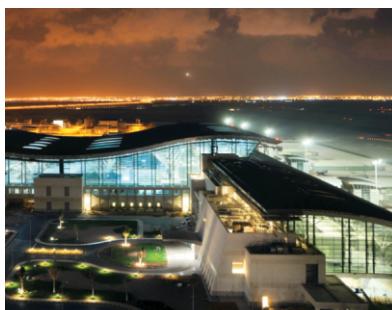


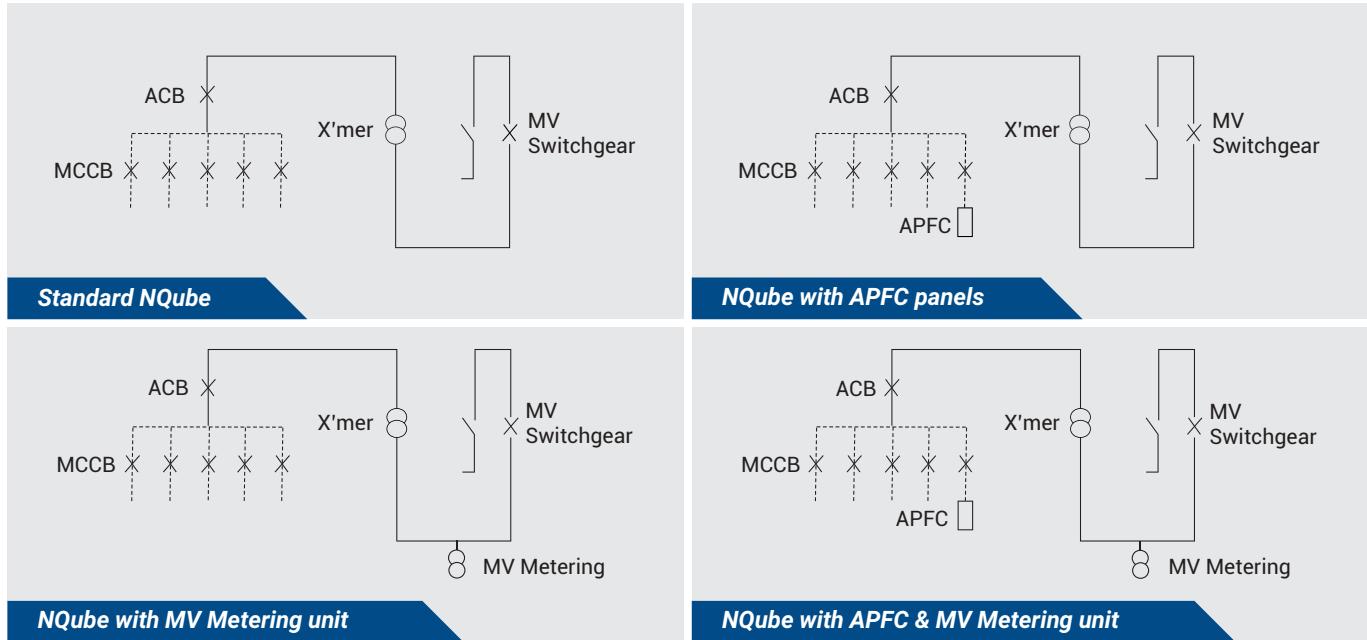
NQube is part of the wide range of product offerings from Lauritz Knudsen Electrical & Automation. It is a compact MV/LV substation for outdoor application, designed in line with IEC 62271 - 202. It functions as a substation in secondary distribution networks. Incorporating LK's standard electrical components,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

NQube is:

- Fully factory assembled & tested
- 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

Lauritz Knudsen Electrical & Automation designs, manufactures and markets a wide range of low voltage and medium voltage electrical systems, control and automation systems, electrical products and metering and protection systems.





three way RMU for ring applications are available

LV switchgear

- Rated up to 2000A, 440V
- Completely customizable
- With LK E&A's proven standard components i.e. Air Circuit Breakers, Molded Case Circuit Breakers etc.
- Flexibility in arrangements & configurations
- Maximum 8 nos. of outgoing MCCB feeders with one incomer ACB feeder

Transformer

- Up to 1250kVA
- Choice of oil type & dry type transformers
- Hermetically sealed corrugated type oil transformer
- Minimal losses
- Off Load Tap Changing
- On load Tap Changing OLTC with RTCC and AVR
- Complaint to K/10 as per IEC 62271 - 202

MV switchgear

- LK E&A make 12kV, 630A, 21kA, RMU
- Robotic welding of gas tank ensures leakage free operation
- Internal arc fault tested for 21kA, 1S complying with AFLR IEC 62271 - 200
- Ample space for CT mounting
- Minimal maintenance & sealed for life
- No exposure to live parts

| Product type | 100-250 kVA | 315-630 kVA | 750-1000 kVA | 1250 kVA |
|---|----------------------------|--------------------|--------------------|--------------------|
| Rated voltage (MV / LV) | 12kV / 440V | | | |
| Rated current (MV / LV) | 630A / 500A | 630A / 800A | 630A / 1600 A | 630A / 2000A |
| Rated Power Frequency Withstand Voltage | 28kV | | | |
| Rated Lightning Impulse withstand voltage | 75kV | | | |
| Rated Short Time Current rating - MV / LV | 21kA(3s) / 50kA(1s) | | | |
| Dimension (L x B x H) in mm* | 2700 X 2100 X 2570 | 3000 X 2100 X 2570 | 3400 X 2100 X 2570 | 3700 X 2100 X 2570 |
| Ingress Protection (MV / Trans / LV) | IP 54 / IP23D & 34D / IP54 | | | |
| Temperature Class | K10 | | | |

* Subject to change as per project specifications & Transformer Dimensions.

* For Product Type 1600kVA, 2000kVA & 2500kVA-Please contact L&T Electrical and Automation