


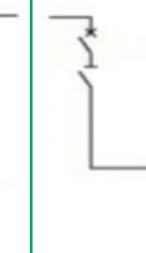
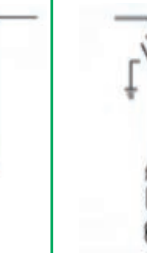
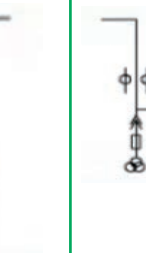


Flexible in form and function

Technical characteristics

		C	V
Rated voltage	kV	40.5	40.5
Rated frequency	Hz	50	50
Rated withstand voltage at 50 Hz 1 min between poles and to earth	kV	95/118	95/118
Rated withstand voltage lightning impulse between poles and to earth	kV	185/215	185/215
Short time withstand current value (2 s)	kA rms	25	-
Short time withstand current value (4 s)	kA rms	20	31.5
Short time current peak value	kAp	80	80
Rated busbar current	A	630, 1250	630, 1250
IAC classification according to IEC 62271-200 (AFLR)	kA 1s	20	31.5

Main functional units

Names	C	V	CL	VL	P	M
Functions	Cable incoming or outgoing feeder with load switch	Transformer/line protection with vacuum circuit-breaker	Bus coupler with load switch	Bus coupler with vacuum circuit-breaker	VT switchgear	Metering switchgear
Mimic diagrams						

Approximate dimensions and weights for selected configurations

Version	Function	Number of functional units	Height (mm)	Depth (mm)	Width (mm)	Weight (kg)
TGS panel	C	1	2300	1000	500	650
	V	1	2300	1000	500	700
	P	1	2300	1000	800	600
	CV	2	2300	1000	1000	1350
	C+D	2	2300	1000	1000	1250
	V+D	2	2300	1000	1000	1300
	CCV	3	2300	1000	1500	2000
	CCVV	4	2300	1000	2000	2700
	VVV	4	2300	1000	2000	2800



Compact and innovative by design

Get greater versatility and a compact footprint with TGS gas-insulated switchgear for secondary distribution

TGOOD Head Office
 TGOOD Global Ltd.
 Unit B,8/F, Shun Ho Tower, 24-30
 House Street, Central, Hong Kong
 T +852 2393 8005
 F +852 2393 8808
 info@tgood.com

www.tgood.com

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Design: Global Marketing

TGQDMK550000

2021.05

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Safety through innovation

TGS40.5 is a compact, innovative gas-insulated switchgear rated up to 40.5 kV and 1250A, with an internal arc withstand of up to 31.5kA/1s. A total of four functions can be fit in one tank for maximum versatility.

TGS40.5 has been designed for maximum safety of the operators and equipment. The HV conductive parts of the RMU are placed in insulating inert gas which is sealed in stainless steel tank. It has also relative

narrow footprint among the market and can easily evolve with your electrical distribution.

All of these make TGS40.5 the logical choice for a wide variety of modern applications. Whether serving as a ring main unit in a secondary public distribution network or as a switchboard for industrial or infrastructure networks, it delivers world-class performance with a minimal cost of ownership.



CB630/1250A

TGS is continually being improved upon.

One of the latest innovations is the CB630/1250A, a fast reclosing vacuum circuit-breaker: O - 0.3 s - CO - 180 s - CO.

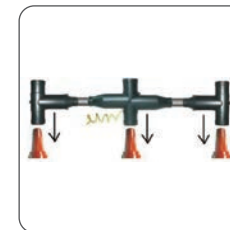
The V unit is only 500mm wide and is extensible on both sides.



Maximum continuity of service

TGS is based on an innovative, elegantly simple design which ensures maximum continuity of service.

- > LSC2A-class continuity of service
- > Key live parts are sealed for life in a stainless steel, SF₆-filled tank, making them impervious to environmental conditions
- > No maintenance of tank-sealed parts during product lifetime
- > Flood-proof design.



Easy to install and operate

With the narrowest footprint on the market and easy extensibility, TGS cuts the time and effort needed to set up an electrical network.

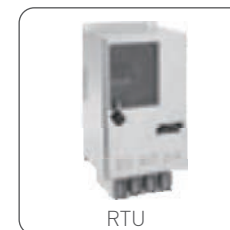
- > Compact size makes installation easy
- > Spacious cable compartment for MV cable connection
- > Easy to extend through connection device.



Engineered for safety

TGS's design puts safety first, ensuring the highest level of security for personnel and equipment.

- > TGS meets the key national or international standards currently in force: IEC, GB.
- > Internal arc withstand of up to 31.5 kA/1s, AFLR.
- > Hot gas release away from operator in the unlikely event of an internal arc, thanks to pressure valves and a rear duct.
- > Integrated interlocks ensuring fool-proof protection.
- > A comprehensive range of key- and padlocking options.



Smart grid-ready

Electrical networks are evolving to handle distributed generation and renewable energies. TGS is built to evolve along with them.

- > Remote control and monitoring capability, with open communications and an auto-transfer switch, thanks to the remote terminal unit.
- > Enhanced power availability or restoration through the CB's O-C-O fast reclosing function.
- > Variety of fault passage indicators, including directional fault indicators.



Electric utilities



Industry



Wind



Mining



Oil and Gas



Infrastructure



Railway



Airport



Solar