PETELCO®

LIMITED COMPLETE POWER SOLUTIONS

ISO 9001:2015 REGISTERED

- Substation
- Transformer *(Power & Distribution)*
- HT-LT Switchgear & PFI Plant
- Generator *(Diesel & Gas)*
- Busbar Trunking Systems
- Solar Systems

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PETELCO®
LIMITED COMPLETE POWER SOLUTIONS

Petelco Limited is in diversified business since last 9 years. Petelco Transformer is a key part of Petelco Limited. Petelco Limited also is an ISO: 9001 : 2015 Certified Company, based at Dhaka and into manufacturing of Transformer and Switchgear, PFI Plant etc.

A factory with modern machinery, with modern technology is located at Brahmangaon (Near Pangaon Port), Dakkhin Keranigonj, Dhaka. The company has a strong team to take any challenge. At Petelco Limited we always stress on Quality and Customer Satisfaction. Petelco Limited offer the full extent of its experience and legendary servicess to all of its customers.

With the full support that we have from our customers and suppliers, we are ready to next leap.

Manufacture, Supply & Installation of-

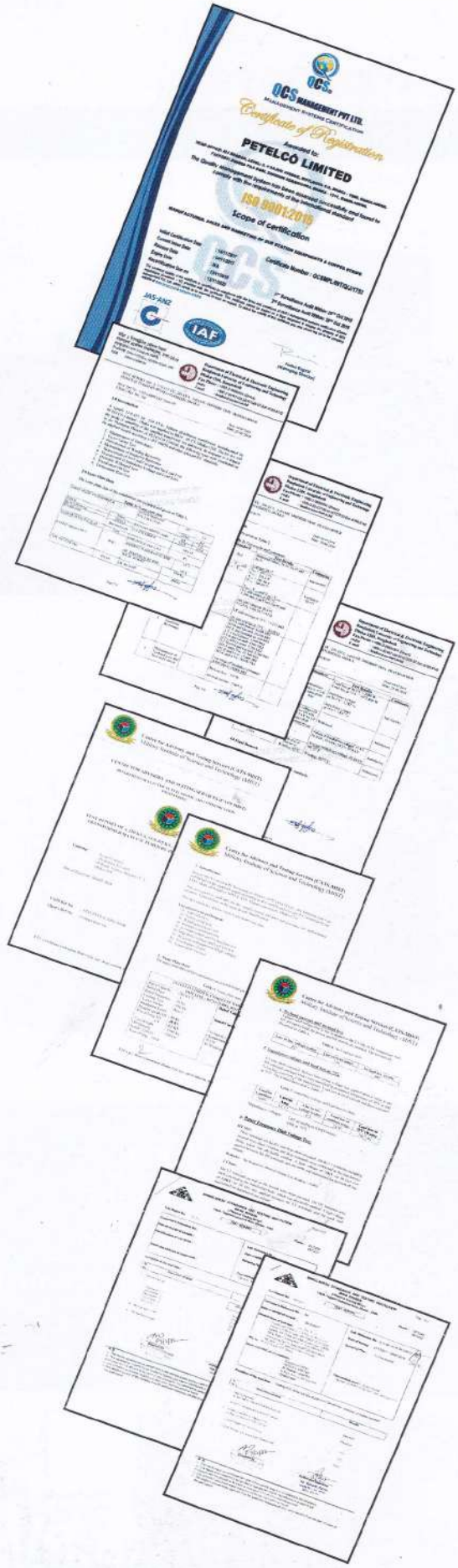
* Distribution Transformer up to 10,000KVA, 11KV
* Power Transformer up to 10/20 MVA, 33KV
* HT & LT Switchgear up to 33KV
* PFI Plant, Distribution Board
* All kinds of Metering Panel & Units
* Motor Control Centre
* Industrial Control & Automation Panel
* 11/33 KV Load Break Switch (LBS) & Vacuum Circuit Breaker (VCB)
* Industrial Voltage Stabilizer (IVS)

Marketing:

* Electrical Components:
- Low Voltage MCB, MCCB, ACB, Magnetic Contactor, Capacitor, Fuse, etc.
- Medium and High Voltage: VCB, LBS, ACB, AVR, Capacitor, LA, DOF, etc.

* Busbar Trunking (BBT) both Aluminum & Copper
- Low Voltage (LV) BBT system 40A to 6300A
- Medium Voltage (MV) BBT system up to 36KV, 4000A
- DC BBT system up to 1000V, 20,000A

* Cast Resin Dry Type (CRT) & Vacuum Pressure Impregnated (VPI) Dry Type, Special application transformers (Converter Duty, Rectifier Duty, Furnace Transformers, Deltaformer, Scott Tee Transformers, etc.)



Why Petelco Limited?

- Modern Manufacturing Plant
- Professional & Experienced Management Team
- Qualified & Experienced Work Force
- Competitive price compared to national and international prices
- Technical Assistance
- International Quality Management Systems, Like 5S, QC Circle and TQM maintained
- Ready Stock/Inventory of finished products
- Round the clock services
- Quality with commitment
- Branch offices all over the country

PETELCO® LIMITED COMPLETE POWER SOLUTIONS

Petelco Factory

Petelco Transformer

We would like to say all of our honourable Customers, users that **Petelco Limited** is one of the developing company in our country with the product of substation equipment, as like Transformer, HT Switchgear, LT Switchgear, PFI Plant, MDB, SDB and Generator. Emphasising on clients Interest in Petelco Limited, we are committed to meet our valued client needs in the most befitting way. We pledge to use our resources quality and effectively to solve your problem with the right and complete solution for your project, Sales, Service, Spare support system integration or system management and monitoring control.

Petelco Limited started making of world class switchgear equipment incorporating a number of committed engineers. **Petelco Limited** started manufacturing of transformers and switchgears. Our engineers are closely related with international professional bodies like IEEE & ASME and accordingly updating their technologies with latest developments.

Petelco Limited has high skilled engineers and technician to manufacture of Distribution and Power Transformer (3 Phase). Though transformer are designed on requirements of valued customers according to IEC (International Electro Technical commission) ANSI (American National Standard Institute) BS, VDE. Though Transformer are rating from 50 KVA to 10,000 KVA among this Distribution Transformer rating from 5 KVA to 10,000 KVA system voltage 11kv or 33 kv. We are maintaining its continuous improvement in design and product quality by using the modern production technique with latest technology and experience.

At last we want to say that all of **Petelco Limited** staff recognizes that client satisfaction is of paramount importance.

Quality Policy

High quality Product

Fast & Proper service

Priority of customer's requirement

In time delivery

Quality of Petelco Limited Transformer

As consistent guarantee of the highest quality, Distribution Transformers are manufactured from cold rolled grain oriented (CRGO). Quality control is carried out at all stages of production while final routine and type tests are performed in our well equipped testing laboratory according to IEC-76, BDS 1081, ANSI, AEC and BSTI standards.

Petelco's Transformer

This range consists of transformers complying with the following specifications:

* Three-phase transformers, for indoor or outdoor use (installation to be specified).
* Step-down type. Step-up on request
* Rated frequency 50Hz
* Maximum ambient temperature 40°C
* Oil immersed (other dielectric upon request)
* Breathing type hermatically sealed transformers with integral filling
* Cover bolted on tank
* ONAN type natural cooling
* Standard anti-corrosion surface treatment and coating

Basic fittings for Breathing Type Each Transformer includes

* 1 off-circuit tappings switch with pad locking located on the cover, this switch operates on the highest rated voltage to bring the transformer to the supply voltage/actual value:
* Oil conservator
* Oil level gauge
* 3 MV porcelain bushing
* 4 LV flat bars
* earthing terminals on the cover
* 4 bi-directional rollers
* 2 lifting lugs
* 1 rating plate to be fixed on LV side
* 1 filling plug oil draining device
* Protection index IP 00, 1P215 as option.

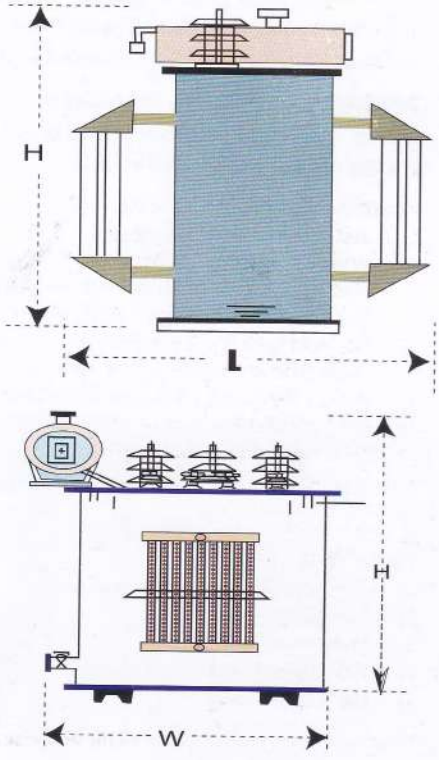
Design

Standards	:	IEC 76, BDS-1081, ANSI, VDE.
Frequency	:	50Hz, 60Hz (on request)
Ratings	:	25 KVA - 10,000 KVA
Primary volt	:	for values above 24 kv and up to 36 kv. Double high voltages 15-20kv
Tapping	:	2.5 %; ± 5 % or ± 2 x 2.5 %; -7.5%
Secondary volt	:	415 to 440V other values may be offered Double low voltages with 7 LV bushings can be offered with full rating on both voltages or with reduced rating (75%) on load.

Transformer's Physical Dimensions

Rating (kva)	Height/H (cm)	Length/L (cm)	Width/W (cm)	Weight (kg)
100	132	100	63	650
150	145	105	88	900
200	150	112	93	975
250	158	113	95	1100
315	160	120	97	1250
400	165	123	98	1450
500	165	124	102	1725
630	170	136	103	1970
750	185	155	112	2250
800	225	170	113	2575
1000	215	185	115	2850
1250	225	190	116	3725
1500	230	200	120	4300
2000	250	210	135	4750

N. B. All dimensions are shown including radiator and conservator tank.



PETELCO® LIMITED COMPLETE POWER SOLUTIONS

Insulation

The dielectric circuit of transformer which isolates the magnetic & electric circuit & their parts, insulation papers and press board of high quality from Switzerland are used for our entire PETELCO brand transformer.

Tap Changer

For any kinds of transformer tap changer is made of high quality homogeneous insulating board or synthetic resin mould is mounted below oil level for changing the connections of taps in primary windings. Origin ABB, Italy.

Transformer Oil

Transformer oil is procured from reputed manufacturers. It is tested for resistivity dielectric dissipation factor, acidity, flash point, pour point, break down voltage and inter facial tension as per BIS & IEC. Transformer oil is so that no further drying will be required before putting into operation.

Insulating oil are as follows:

Specific gravity at 15ºC: 0.87	
Viscosity at 75ºC	5.5 centistokes (max)
Viscosity at 30ºC	19.0 centistokes (max)
Flash point	145ºC (min)
Dielectric strength	50 kv (min), 12.5mm
Diameter spare electrode gap length	2.5mm

Hyrax Oil (Malaysia)

Electrol-A Oil (India)

Savita Oil (India)

Bushing

High voltage and low voltage bushing are of wet process porcelain manufactured by BISF in Bangladesh with terminals suitable for copper or aluminum conductors. All the Bushings are top mounted.

Tank & Radiators

Conservator Tank is detachable by providing a flange at its point of connection to the tank cover. Transformer tank is made with steel sheet and covers are fabricated by welding. Tank is tested under pressure for finding any leakage. Tanks employed for housing the core coil assembly are mechanically strong. Tank finish consists of three coats. Each coat is applied uniformly and cured at even temperature. For properly making of radiator is very important. Each individual element and radiator under assembled condition is tested with air pressure of approximately 3kg/cm2

Testing

During the entire manufacturing process the transformer is approved by BSTI, BUET, MSTI, Electrical licensing authority of energy ministry, IEC76/BDS1081.

Routine Test

1) Insulation resistance test
2) Winding resistance test
3) Voltage ratio & polarity test (vector group test)
4) Load loss & impedance voltage measurement
5) No load loss & exciting current measurement
6) Dielectric strength test of oil
7) Power frequency voltage withstand test.
8) Core insulation test
9) Function of tap changer test.
10) Heat-run test at ONAN and ONAF rating
11) Short-circuit test

Type Test

1) Impulse voltage withstand test
2) Temperature rise test
3) Over load test
4) Noise level test
5) Oil leakage test

**** Test certificates are issued for all the above tests on request.***

Single Phase Transformer

Pole mounting distribution transformers are manufactured in two types:

Conventional and self protected type:

According to the distribution systems, the transformer may have one or two high voltage bushings.

Conventional type:

The conventional type transformers are furnished with accessories as per relevant applicable standard.

Self protected type: the complete self protected transformers have the following devises:

a) Lightning arrestor
b) Primary fuse link
c) Secondary circuit breaker
d) Signal lamp

Three phase transformer

The three phase distribution transformers are manufactured for indoor or out door use and in the pole mounting or ground mounting type.

Features

Low loss and efficiency by using cold rolled grain oriented silicon steel with high permeability. Transformer tank is filled with oil under vacuum thus improving the complete penetration of insulating liquid. The high coil-to-coil and low coil-to-ground capacitance ratio provides distribution of surge voltage over the entire coil. Smart out line by the latest methods of automatic machining. Oil preservation systems depending upon transformer rating to prevent the deterioration of transformer insulating. Paraffin based mineral oil is used for best cooling effect. Dial thermometer with or without contacts and Buchholz relay are used as per customer request. Transformer is compact design and use friendly. Arcing horns are use in proper distance.

Warranty

Petelco Limited committed to our client for trouble free operation of our supplied equipment and under make warranty for free replacement of any part or parts failing due to manufacturing defect or wrong workmanship, which shall not include normal operational wear and tear for a period of 24 months from the date of delivery of equipment and 12 month from the date of commissioning.

Our others activities

a) Sales and services of Diesel/Gas Generators.
b) Manufacture, Assemble, Supply and Installation of Substation equipment.
c) Maintenance contract for Substation and Generator.

PETELCO® LIMITED COMPLETE POWER SOLUTIONS

Switchgear

Petelco Limited is improving and updating the engineering know-how in switchgear technology day by day. The switchgear division is itself a complete unit with knowledge, experience, skills as well as machineries, machining facilities and test equipment.

Fixed Type

VCB/ LBS/ SF6 breaker is suitable for use in cubicle switchgear units. Such breaker is fixed to a switchgear or floor by bolting its base with it. If requested, fixed mounting SF6 breaker/VCB/LBS's may be provided with wheels which will make its movement easier.

Connections between the breaker and incoming as well as outgoing busbars, are made directly and kept fixed.
The terminal arrangement of a fixed mounting breaker is such that connection to various positions are made in the following manner :

Main connection - by bolts
Control connection - by screws
Earth connection - by screws

Draw-out Type

VCB/SF6 breaker is mounted on a cradle. The complete unit may be provided with a shutter of front cover. This SF6 breaker /VCB along with the cradle can be easily installed inside a switchgear compartment without any need of mechanical adjustment.

The interlock of the draw out mechanism type and its special features are-
The circuit breaker cannot be placed in or withdrawn from its cradle when it is in closed position.
The circuit breaker cannot be operated as the time of inserting in the cradle.
Circuit breaker & other components like CT, PT, IDMT relays all are imported from USA, Germany, France UK and Japan or as per choice of our valued customers.

High Tension (HT) Switchgear

High tension switchgear comprise the units designed for rated voltage of 12kv, 33kv current range 400A to 1250 A. Switchgear insulation designed to withstand rated voltage is also subjected to over voltage due to lightning and breaker operation transients. Depending on the conditions switchgear installation are designed and manufactured for outdoor and indoor service. Suitable for mass production, transportation handling and convenient operation, the weight of the equipment is kept as low as practicable.

Petelco HT Pannel

The Petelco HT Pannel is a metalclad MV switchgear assemblies designed and made in conformity to new IEC 62271-200 edition 2.0 standards for the safety and protection of life and property as well as easy installation, operation and protecting the environment.

Petelco HT switchgear system comprises of modular cubicles with vacuum circuit breakers.

They can be used to build all types of configuration from 3.6 to 12kV 630-2500A,16-25kA. Petelco HT meets all the new IEC recommendations.

Advantage of VCB

* Proven hermetically sealed vacuum interrupters.
* Low contact erosion.
* Fast recovery of dielectric strength.
* Maintenance free vacuum interrupter.
* Suitable for auto re-closing duty.
* Small stroke length and less moving parts.

PETELCO® LIMITED COMPLETE POWER SOLUTIONS

Low Tension (LT) Switchgear

Petelco Limited made LT switchgears are withdrawable or fixed-mounted construction. Our LT switchgears are sheet steel (12-16 swg) cladded with modular systems for assembly of cubicles intended to take heavy equipments, dust and vermin proof, free standing of against-a-wall installation, single or double fronted arrangement and all-round steel enclosure, floor mounting indoor type, with TPN &E copper busbar. We prefers to use ABB, Marlin Gerin, SIEMENS, branded circuit breaker in our panels, but if it is prescribed other brand by customer and it does not over rule the standards we manufacture as per customer's requirements.

Petelco LT Pannel

The Petelco LT Pannel modular lew voltage panel system designed and made in conformity to IEC 61439.1, IEC 61439.2 and is used to compose LV switchboards upto 1000V for all type of applications:

- LV power distribution
- Process control
- Motor control centers and so on

In accordance with IEC 61439.1 & IEC 61439.2 internal partitions between individual compartments can be provided or omitted depending on the type of separations (2a-2b, 3a-3b, 4a-4b)

Technical Data

Rated voltage (V) up to 660v, 50 hz
Rated current (A) up to 7200 A
Rated currents of components
Circuit breakers up to 6300 A
DOL contactor starters up to 400A
Contactor type reversers up to 400 A
Contactor type star-delta starters up to 700 A

Dimensions

(Dimensions to DIN 41S488 SHEET 2)
Height: 600/800/1500/1800/2200mm
Width: 400/600/800/1000 mm
Depth: 400/600/800mm

Rated Peak Withstand Current
Main busbars up to 176 ka
Dropper bars up to 120 ka
Degree of protection
to DIN / IEC IP 40

Tests

All the breakers are subjected to routine tests as per IEC the panels along with the breaker are subjected to routine tests as per IEC before dispatch.

We do not compromise in using circuit breakers other than Europe origin and always ensures type tested products certified by European neutral bodies. We also use high quality insulations and copper bus-bar of excellent thermal conductivity

Indoor Outdoor Cubicle

Air insulated, metal clad construction using high quality steel.
Durable epoxy powder coated finish.
Easy accessibility for maintenance.
Meters, Relays and Controls located at convenient height.
Side cable box for single panels.
Fully tested as per IEC.

PETELCO® LIMITED COMPLETE POWER SOLUTIONS

PFI PLANT

POWER FACTOR IMPROVEMENT (PFI)
PLANTS ARE OF-
1) MODULAR DESIGN
2) COMPACT ARRANGEMENT
3) LOW LOSSES CAPACITORS
4) HIGH RELIABILITY
5) FACTORY WIRED
6) EXTENDIBLE

Power factor correction is the switching of the capacitors in parallel with inductive loads in the network.
Motors, Transformers and other inductive loads require reactive power. Transmitting/distributing the reactive power from the power station to the loads in uneconomical. It improves undue burden on generators and transmission/distribution system, causes additional losses, increases, voltage drop and the overall power requirement of the plant.
Economic and technical reasons thus make it expedient to relieve the generators, transmission/ distribution system and cables of reactive power. The automatically controlled capacitors i.e. our power factor improvement (PFI) plant is well suited for this purpose.

Design

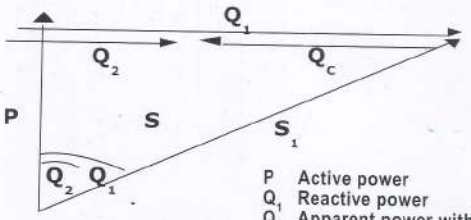
Power factor correction principles :
Our power factor improvement plants are manufactured in modular design and consist of:
* Relay Module
* Capacitor Modules

The regulation module consist of :
* Solid state reactive power rlay with digital indication of power factor.
* Circuit breaker for control vable protection.

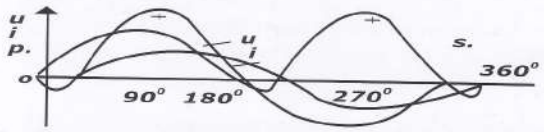
The capacitor module consist of :
* Harmonic load tolerance
* High reliability
* Air break contactors to switch capacitors
* Metallized plastic foil
* High over load capacity (15 x rated current)
* Long life (approx 100,000 hrs.)
* High temperature class
* Touch proof terminals
* Environment friendly insulating gas filled

Standard & Regulations

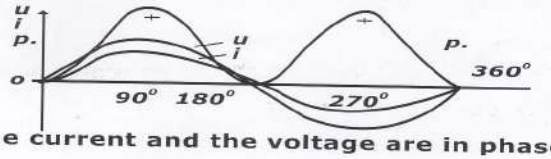
DIN VDE 0660, Part 500 (TTA) and IEC - Pubi, 439-1
DIN VDE 0106, Part 100



P Active power
Q_1 Reactive power
Q_1 Apparent power without compensation
Q Phase angle
S_2 Apparent power with compensation
Q_2 remaining reactive power
Q_2 switched on capacitor power



The current lags the voltage by the angle φ



The current and the voltage are in phase

Active, Reactive and Apparent Power:

The apparent power S required by electrical machines and electrical equipment is the product of voltage U and current I.

$S=U\,I$ or $\sqrt{3}\,U.\,I$

The active power is calculated as follows: $P=U.I.\cos\phi$ or $U.I\cos\phi$

In AC systems the power factor is $\cos\phi=1$, if the current and voltage are in phase, I.e. both reach their highest positive and negative values simultaneously and pass trough zero together. This is the case with resistive loads(heater elements, filament lamps). The delivered energy is almost totally converterd, e.g. into heat. Here we talk about pure 'active' power 'P' reactive current flows internally between the inductive loads, e.g. motors and the capacitors.

Regulations :

DIN VDE 0660 part 500 (TTA) and IEC-publ. 439-1, DIN VDE 0106 part 100

Painting

All the panels of HT switchgear, LT switchgear, PFI plant and distribution board are powder coated by high quality imported paints from BURGER.

Busbar Trunking Systems

Busbar Trunking System is very low compare to conventional cabling system for distribution up to load due to shorter and easier installation, reduced costs, time, space and maintenance management. We dopted most advance European technology for Busbar trunking systems. All the deign and drawing from European consultant. The busbar is designed for sandwich construction which is efficient in perfomance, cost effective, compact, safe and enviromnent friendly.

Energy efficiency: Compactness of sandwich construction results in higher efficiency due to lower voltage drop and impedance. This ensures all connected equipment run cooler.

Flexible: Additions of floor to a building or any expansion to an existing system is extremely simple with sandwich BBT. They are scalable & elegant.

Safe & Sure: Higher mechanical strength over long runs, better electrical conductivity and lower MV drop which ensures high reliability. Ability to withstand high short circuit currents make them doubly safe.

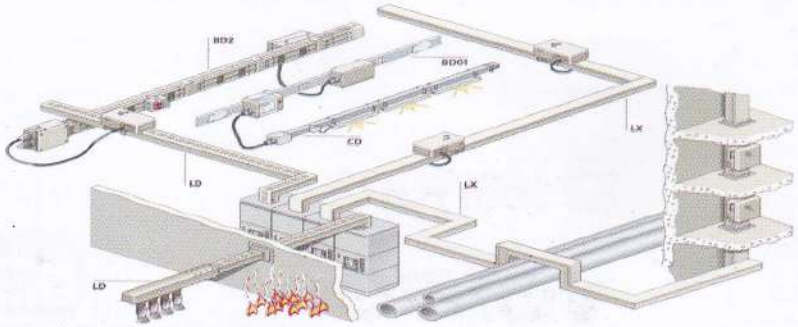
Fire retardant: Sandwich construction do not have air gap due to which natural progression of fire is inhibited. Epoxy insulation, being name retardant provides better resistance to spread of fire

Compactness: Sandwich construction render to the BET system more compact than air insulated bus bar system, thus making them a preferred choice in plant room and building applications.

Economical: Inherently flexible design ensures easy Installation and maintenance thus resulting in lower installation and maintenance costs.

The benefits of busbar over cabling system

* Busbar trunkings are functional and flexible, busbar systems quickly accomodate changes in machinary lines or any kind of extansion.
* If additional extension is required in the existing Busbar Trunking system, then it can be done reusing the existing one. But for the case of Conventional cable, existing cable cannot be reused,
* Busbar installations can be changed or can be mounted to another establishment.
* Minimises maintenance.
* Voltage drop can be measured exactly as inductive reactance and electrical values are designed and calculated values.
* Operating costs are minimum.
* Busbar projects are easy to prepare. Even with estimated layouts, it can be projected and approximate material list can be prepared.
* System does not cover a large area and helps space management. Considering its ampere range dimensions are small.
* Short circuit withstands are high.
* Busbars can be apllied to any kind of building by its modular structure.
* It covers much less space than cable systems according to its high ampere rate.
* Busbar trunkings doesn't carry flames incase of fire as a result of compact structure.



PETELCO®
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Generator

Petelco Limited is captive and distributed power solution provider. It is a leading name in the diesel generator industry having a large customer base. Its clientele comprises of industrial plants, real estates, hospitals, educational institutions, telecoms, super markets, corporate houses, NGOs, embassies and various government establishments.

Main Features

* Low Emission
* Low Noise & Durability
* Simple to Operate & Environment friendly
* High quality
* Reliable
* Easy to maintenance
* Higher Power output
* Low fuel consumption
* Round the clock service

Our Channel Partners:

Forest City GENERATORS
The Power to Deliver

Welland Power

STAMFORD®

Perkins

Cummins

VOLVO

mecc alte

Diesel Generators RANGES

GENERATOR SPECIFICATIONS 22 - 2200kVA

Genset Rating	Prime Power		Standby		Engin Model	Open Set Dimension L x W x H (cm)	Open Set Weight (kgs)	Fuel Cons, @75% (L/H)
	kVA	kW	kVA	kW				
13 KVA	13	10.4	14.3	11.44	403D-15G	115x56x117	470	2.8
20 KVA	20	16	22	17	404D-22G	132x56x122	560	4.0
25 KVA	25	20	27.5	22	1103A-33G	147x70x136	800	5.4
30 KVA	30	24	33	26	1103A-33G	158x70x136	800	5.4
42.5 KVA	42.5	34	45	36	11034-33TG1	158x70x135	960	8.2
45 KVA	45	36	49.5	39.5	1103A-33TG1	158x70x135	960	8.2
60 KVA	60	48	63	50.4	1103A-33TG2	163x70x144	960	10.4
65 KVA	65	52	71.5	57.2	1104A-44TG1	180x70x148	960	11.2
80 KVA	80	64	88	70.4	1104A-44TG2	186x72x149	1080	14
100 KVA	100	80	110	88	1104C-44TAG2	186x72x749	1130	17.1
150 KVA	150	120	165	132	1106A-70TAG2	231x77x158	1350	31
200 KVA	200	160	220	176	1106A-70TAG4	254x86x187	1830	35
250 KVA	250	200	275	220	1506A-E88TAG3	254x86x187	1920	36
300 KVA	300	240	330	264	1506A-E88TAG5	318x113x215	3580	54
350 KVA	350	280	380	304	2206A-E13TAG2	318x113x215	3580	54
400 KVA	400	320	440	352	2206A-E13TAG3	318x116x215	3700	62
450 KVA	450	360	495	396	2505A-E15TAG1	340x113x222	3900	72
500 KVA	500	400	550	440	2506A-E15TAG2	340x113x222	3900	76
600 KVA	600	480	660	528	2806A-E18TAG1A	340x154x227	4700	90
650 KVA	650	520	710	568	2806A-E18TAG2A	340x154x227	4700	97
750 KVA	750	600	825	640	4006-23TAG2A	397x171x232	5350	120
800 KVA	800	640	880	704	4006-23TAG3A	397x171x232	6350	130
900 KVA	900	720	990	792	4008TAG1A	397x171x232	6350	143
1000 KVA	1000	800	1100	880	4008TAG2A	465x205x227	7500	160
1025 KVA	1025	820	1125	900	4008TAG2A	465x205x227	7500	166
1250 KVA	1250	1000	1375	1100	4012-6TWG2A	473x178x245	8900	196
1360 KVA	1360	1088	1500	1200	4012-46TWG34	473x198x245	9000	213
1500 KVA	1500	1200	1650	1320	4012-46TAG2A	499x219x251	10000	235
1700 KVA	1700	1360	1870	1496	4012-46TAG3A	510x216x281	10600	237
1840 KVA	1840	1472	2024	1619	4016TAG1A	571x278x351	12000	240
2000 KVA	2000	1600	2200	1760	4016TAG2A	571x278x351	13200	250

PETELCO® LIMITED COMPLETE POWER SOLUTIONS

ELECTRICAL SPECIFICATIONS FOR TRANSFORMER

11000/415Volt , 3-Phase Transformer

Sl. No	Rated capacity KVA	No Load Loss	Load Loss at 75°C	Efficiency at unity power factor %	Approximate Weight (Kg)		Approximate Dimension (cm)			Impedance Voltage %
					Oil weight	Total weight	length	width	height	
01	50	150	925	98.00	140	580	94	58	118	4
02	100	245	1700	98.42	180	650	100	63	132	4
03	150	320	2412	98.60	220	900	105	88	145	4
04	200	435	2820	98.79	230	975	112	93	150	4
05	250	520	3265	98.81	270	1100	113	95	158	4
06	315	580	4500	98.89	350	1250	120	97	160	4
07	400	722	5490	98.95	390	1450	123	98	162	4
08	500	865	6275	99.00	425	1725	124	102	165	4
09	630	920	7740	99.05	500	1970	136	103	170	4.5
10	750	1150	8850	99.06	625	2250	155	112	185	5
11	800	1300	9800	99.06	650	2575	170	113	200	5
12	1000	1650	11600	99.08	800	2850	185	115	215	5
13	1250	1820	12300	99.10	1000	3725	190	116	225	5
14	1600	2200	14275	99.12	1200	4300	200	120	230	6
15	2000	2650	16470	99.15	1450	4750	210	135	250	6
16	2500	3140	19700	99.17	1800	5600	220	150	285	6.5
17	3000	3420	22860	99.19	2050	6350	230	170	300	6.5

33000/11000Volt , 3-Phase Transformer

Sl. No	Rated capacity KVA	No Load Loss	Load Loss at 75°C	Efficiency at unity power factor %	Approximate Weight (Kg)		Approximate Dimension (cm)			Impedance Voltage %
					Oil weight	Total weight	length	width	height	
1	1000	1750	12500	98.95	850	4000	1950	1650	2200	6 ~ 7
2	1250	2050	14900	98.97	1000	4800	2000	1700	2250	6 ~ 7
3	1500	2380	16900	98.98	1170	5400	2050	1750	2280	6 ~ 7
4	1600	2470	17800	98.98	1260	5700	2090	1800	2300	6 ~ 7
5	2000	2950	21000	99.00	1450	6600	2150	1880	2370	6 ~ 7
6	2200	3150	22500	99.01	1600	7300	2200	1950	2420	6 ~ 7
7	2500	3500	24700	99.02	1750	8050	2300	2050	2500	6 ~ 7
8	2800	3800	26800	99.02	1900	8600	2350	2100	2560	6 ~ 7
9	3000	4000	27900	99.03	2000	9200	2420	2200	2620	6 ~ 7
10	3500	4500	30700	99.03	2250	10250	2500	2290	2680	6 ~ 7
11	3800	4750	32200	99.02	2450	10900	2580	2350	2730	6 ~ 7
12	4000	5000	33500	99.03	2500	11000	2640	2440	2770	6 ~ 7
13	4400	5300	35000	99.04	2650	11850	2700	2500	2850	6 ~ 7
14	4800	5650	37000	99.04	2850	12500	2760	2600	2900	6 ~ 7
15	5000	5850	37500	99.05	2950	12800	2850	2680	2970	6 ~ 7
16	5500	6250	39700	99.03	3170	13600	2930	2750	3000	6 ~ 8
17	6000	6700	41800	99.04	3400	14400	3000	2850	3100	6 ~ 8
18	6500	7100	43700	99.04	3600	15200	3050	2910	3150	6 ~ 8
19	7000	7500	45600	99.05	3800	15900	3120	3000	3200	6 ~ 8
20	8000	8300	50000	99.05	4220	17500	3200	3080	3270	6 ~ 8
21	8500	8700	51200	99.05	4400	18000	3270	3170	3320	6 ~ 8
22	9000	9200	52800	99.06	4600	18700	3350	3250	3400	6 ~ 8
23	9500	9400	55000	99.08	4800	19400	3400	3300	3450	6 ~ 8
24	10000	9800	56000	99.08	4900	19900	3480	3400	3500	6 ~ 8
25	10000	9800	56000	99.1	4900	19900	3480	3400	3500	6 ~ 8
26	11000	10600	60000	99.11	5300	21200	3500	3450	3550	7 ~ 10
27	12000	11300	64000	99.12	5600	22500	3550	3470	3590	7 ~ 10
28	13000	12200	68000	99.14	6000	23800	3600	3510	3620	7 ~ 10
29	14000	12800	71700	99.15	6300	25000	3630	3550	3660	7 ~ 10
30	15000	13600	75400	99.18	6600	26200	3670	3600	3700	7 ~ 10
31	16000	14300	79300	99.19	7000	27400	3700	3630	3740	7 ~ 10
32	17000	15000	82900	99.19	7300	28500	3750	3670	3800	7 ~ 10
33	18000	15700	86500	99.2	7600	29600	3800	3720	3820	7 ~ 10

PETELCO®

LIMITED COMPLETE POWER SOLUTIONS

ISO 9001 : 2015 REGISTERED

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