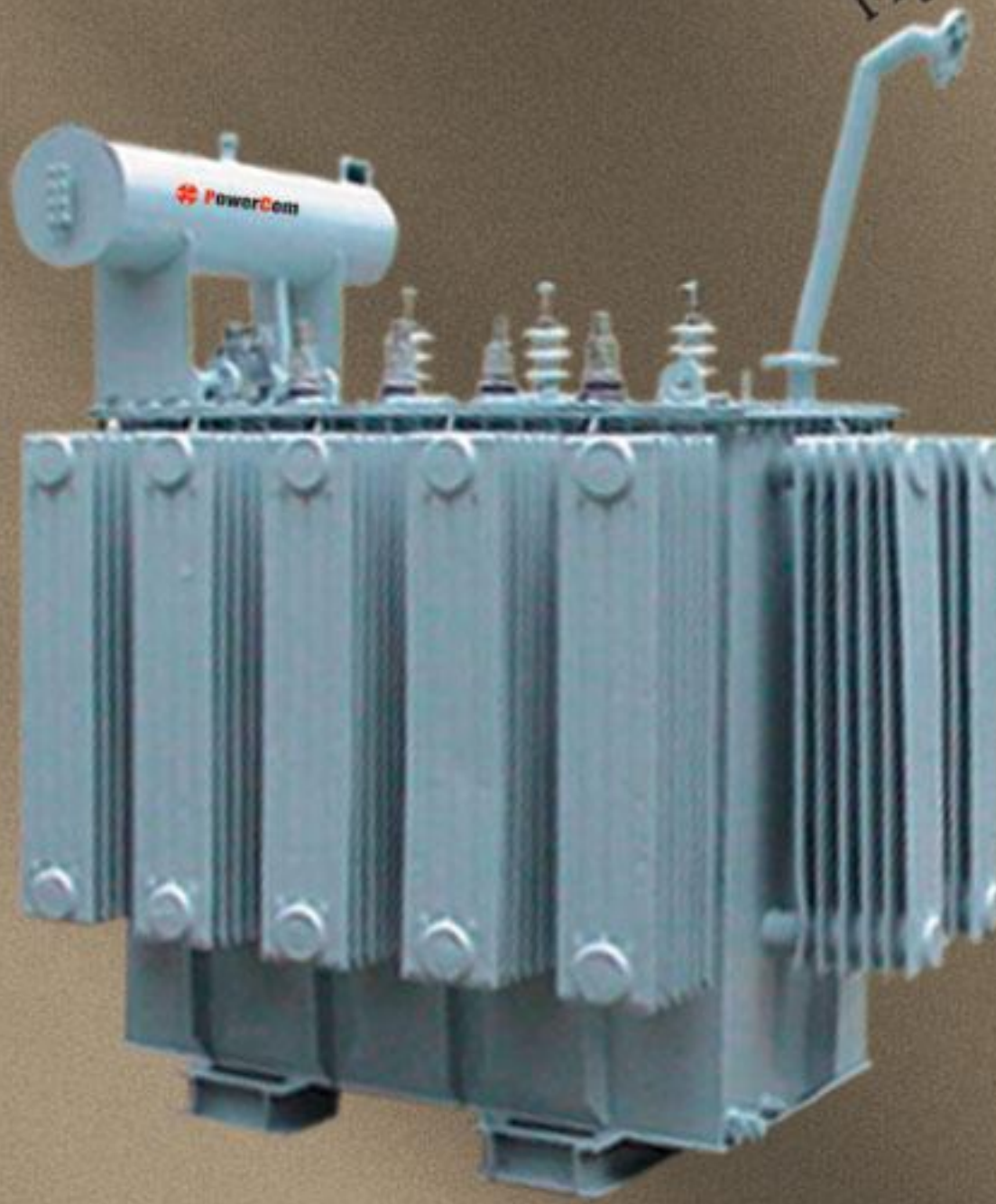


My Protection

Substation Equipment



Distribution Transformers



Power Factor Improvement Plant



Hundred Percent Isolation Built-In Electrostatic Shield Eliminates Common Mode Noise Removes Transient Noise Attenuates Voltage Spike & Surge Reduces Leakage Current Improves Power Quality

DISTRIBUTION TRANSFORMER

Power Com Transformers are manufactured in accordance to the requirement of individual customer request to one or more internationally recognised standard including IEC-76, BSS-171 ANSI-C, 57, VDE-0532, **Power Com** Makes the conventional / sealed Oil immersed, natural cooled, single phase & three phase distribution transformers suitable for outdoor and indoor installation.

POWER RANGE

5 KVA to 167 KVA (Single phase)

50KVA to 2500 KVA (Three phase)

RATED VOLTAGE

Single phase : 6.35/0.24kV

Three phase : 11/0.415kV

VECTOR GROUP

Single phase : 1/1-0 Three phase : Dyn 11

FREQUENCY : 50 Hz Cooling : ONAN

BILL HV : 75kV LV : 3kV

TEMPERATURE RISE

(Above ambient of 40°C)-40°C

winding : 60°C Oil : 50°C-60°C

TAPPING RANGE

2x ± 2.5% or ± 2.5% -3 X 2.5%

SERVICE ALTITUDE : 100M

COOLANT : MINERAL OIL

Shielded Isolation Transformer

Isolation Transformers have primary and secondary windings that are physically separated from each other. It offers hundred percent isolation from the input AC line. It reduces the cumulative leakage current of the isolator and connected equipment. Secondary neutral to ground bonding virtually eliminates common mode noise, providing an isolated neutral-ground reference for sensitive equipment. This is also known as 'insulated' because the windings are insulated from each other. Isolation transformers remove EMI/RFI noise, utility switching transients, and harmonics generated by other onsite loads and utility or lightning related surge conditions.

Shielded isolation transformers have all the feature of the standard isolation transformers plus it also incorporates a full metallic shield between the primary and secondary windings. This electrostatic shield 'faraday shield' is connected to earth ground. It attenuates (filters) voltage transients (voltage spikes) and filters common mode noise. The shielded isolation transformer is preferred over a standard isolation transformer because it provides protection for sensitive and critical equipment and vastly improves power quality. Additional surge suppression components placed at the line input and output combined with full line isolation offers continuous filtering of a full range of power line noise in all modes.

Technical Specifications

OTHER TRANSFORMER : » SINGLE PHASE TRANSFORMER » THREE PHASE TRANSFORMER » BUCK BOOST TRANSFORMER » STEP DOWN TRANSFORMER » STEP UP TRANSFORMER » HIGH VOLTAGE TRANSFORMER » AUTO TRANSFORMER » INSULATION TRANSFORMER » DISTRIBUTION TRANSFORMER.

HIGH TENSION SWITCHGEAR

Power Com High tension switchgear comprises of SF6 Circuit Breaker, Vacuum Circuit Breaker, Minimum Oil Circuit Breaker Load Break Switch, Vacuum Contractor, Disconnectors etc, to meet individual requirement which company with IEC/BS and other relevant international standard, It has features of long service life, reliability and high degree of quality safety.

Power Com High tension switchgears are suitable for inexpensive electrical substation with transformer feeder, measuring, sectionalizing, auto change over and motor protection.

CONSTRUCTION : Sheet Steel, Metal-clad

RATED VOLTAGE : 66.12 & 36kV

RATED CURRENT : 630A, 800A, 1250A

RATED FREQUENCY : 50 Hz

BREAKING CURRENT : 13.1, 16, 18.4, 20, 25 & 31.5KA

MAKING CURRENT : 34, 40, 50, 63, 80, kA

SHORT CIRCUIT

DURATION : 1 or 3 Seconds

LOW TENSION SWITCHGEAR

Power Com Low Tension Switchgear, DB & **Power Com** panels are specially designed to control and distribute power for diverse installations such as power station, industries mills & factories, irrigation, tea gardens, housing complex and other different loads.

Switchgear panels are designed and manufactured for indoor and outdoor of xed type or fully drawouttype with frame structure of moduler construction for easy extension & coupling depending on the condition of installation.

The condition of installation.

The Low Tension Switchgear comprises of Air Circuit Breaker, Moulded Case Circuit Breaker, Fuse Switch Unit, Disconnecter etc, to meet individual requirement which company with IEC/BS relevant international standard.

CONSTRUCTION : Metal-clad

RATED VOLTAGE : Upto 600V

RATED CURRENT : Upto 5000 A

RATED FREQUENCY : 50Hz

RATED BREAKING CURRENT : Upto 100kA

RATE MAKING CURRENT : 34, 40, 50, 63, 80, kA

SHORT CIRCUIT DURATION : 1 or 3 Seconds



LT / SWITCHGEAR

POWER FACTOR IMPROVEMENT PLANT

Power Com Factor improvement Plant has been designed to meet the needs of all forms of power factor correction by Capacitor banks from small unit to a large plant.

PFI Plant are preferable designed to eliminate the penalties for consumption of reactive power, reduction of voltage drop, increase in transformer capacity with same losses (load), reduction line losses. The PFI plant supplied in Cubicles of sheet metal clad, dust & vermin proof, free standing and or mounting (wall mounting in special cases.)

Automatic PFI plantl comprises of Capacitor Banks, Power Factor Improvement Relay/ Regulator, Contractors, HRC Fuses, Manual / Automatic change over switch, reactors for large plant comply with IEC/BS and other relevant international standard. The autmatic PFI Plant are available in steps of 5KVAR to 1200 KVAR are capacitor banks and up to a maximum output of 5,000kVAR.



PFI

Electrical Characteristics

TYPE EP-1		SYSTEM VOLTAGE 11/415 KV, 3 PHASE, 50Hz										
Rated Power	(KVA)	50	100	200	250	315	400	500	630	800	1000	1250
No load losses	(W)	160	240	380	455	540	650	770	910	990	1180	1360
Load Losses at 75°C	(W)	840	1340	2050	2525	2970	3560	4220	5100	6800	8200	10000
Imped. Volt at 75°C	(%)	4	4	4	4	4.5	4.5	4.8	6	6	6	6
Regulation at p.f. =1	(%)	1.75	1.41	1.10	1.08	1.04	0.987	0.941	0.987	1.03	1.00	0.98
Rulation at p.f.=0.8	(%)	3.54	3.36	3.17	3.16	3.41	3.37	3.37	4.2364	4.33	4.31	4.30
Efficiencies at p.f. = 1 (%)	100%	98.00	98.42	98.79	98.81	98.89	98.95	99.00	99.05	99.03	99.06	99.09
	75%	98.31	98.68	98.68	99.00	99.06	99.12	99.16	99.20	99.20	99.23	99.25
	50%	98.52	98.85	99.11	99.13	99.19	99.23	99.27	99.31	99.33	99.35	99.38
	25%	98.30	98.71	98.98	99.02	99.08	99.13	99.17	99.22	99.29	99.32	99.36
Efficiencies at p.f.=0.8 (%)	100%	97.50	98.03	98.48	98.51	98.61	98.68	98.75	98.81	98.78	98.83	98.86
	75%	97.89	98.34	98.72	98.75	98.83	98.89	98.95	99.00	99.00	9.03	99.07
	50%	98.15	98.56	98.88	98.91	98.98	99.04	99.09	99.13	99.16	88.19	99.23
	25%	97.88	98.38	98.73	98.77	98.85	98.91	98.97	99.02	99.12	99.15	99.21
TYPE EP-2		SYSTEM VOLTAGE 11/415 KV, 3 PHASE, 50Hz										
Rated Power	(KVA)	50	100	200	250	315	400	500	630	800	1000	1250
No load losses	(W)	200	335	560	670	785	950	1120	1220	1430	1730	2140
Load Losses at 75°C	(W)	954	1575	2500	2960	3540	4230	4970	5980	7720	9770	12280
Imped. Volt at 75°C	(%)	4.53	4.75	4.75	4.75	4.75	4.75	4.75	4.75	6	6	6
Regulation at p.f. =1	(%)	1.98	1.64	1.36	1.29	1.23	1.16	1.10	1.06	1.14	1.15	1.16
Rulation at p.f.=0.8	(%)	4.15	3.98	3.79	3.75	3.71	3.67	3.63	3.60	4.41	4.42	4.4
Efficiencies at p.f. = 1 (%)	100%	97.74	98.09	98.47	98.55	98.63	98.71	98.78	98.84	98.86	98.85	98.85
	75%	98.2	98.37	98.69	98.75	98.82	98.89	98.96	99.01	99.04	99.04	99.03
	50%	98.46	98.54	98.82	98.87	98.94	99.00	99.06	99.10	99.16	99.17	99.17
	25%	99.13	98.28	98.57	98.63	98.72	98.79	98.86	99.92	99.04	99.06	99.07
Efficiencies at p.f.=0.8 (%)	100%	97.19	97.61	98.09	98.19	98.28	98.38	98.48	98.55	98.57	98.56	98.56
	75.%	97.76	97.97	98.36	98.44	98.53	98.61	98.69	98.76	98.80	98.80	98.79
	50%	98.10	98.18	98.52	98.59	98.67	98.75	98.82	98.88	98.95	98.96	98.93
	25%	98.72	97.83	98.21	98.29	98.40	98.48	98.57	98.65	98.80	98.83	98.84



Power Control & Management

Head Office & Factory : BSCIC Electronics Complex, Level-8, 1/1 Industrial Plot Main Road-03, Avenue - 04, Section - 07, Mirpur-11, Dhaka-1216. Bangladesh
Tel : +88-02-9014710, 8035077, **Fax :** +88-02-8051042
E-mail: info@powercombd.com, **Web:** www.powercombd.com
Show Room : 306 Somoby Bhoban Zinda Bazar Sylhet, **Mobile :** 01713-069132

DISTRIBUTION TRANSFORMER

- Single Phase : 5 KVA to 167.5 KVA
- Three Phase : 50KVA to 2.5 MVA
- Standard : IEC 76 & BS 171
- System Voltage : 11/0.415 KV
- Generator-Capacity : 10 KVA to 500 KVA

DISTRIBUTION BOARD

- H.T. Switch Gear (VCB/MOCB/SF6/LBS)
- L.T. Switch Gear (ACB/MCCB)
- P.F.I Plant (Auto-Manual)
- Motor Control Centre
- Auto/Manual Change-over panel
- Automatic main failure panel
- Star-Delta Starter