

FIRST PHILEC INC. distribution transformers has been the choice of major Philippines' largest private distribution utilities and electric cooperatives for the past 45 years with more than 250,000 units installed nationwide.

Our transformers have also been specified by a number of the country's leading names in the commercial development and industrial sectors. Our products NOT only conforms to international quality standards but has also withstood the test of time.

General Specifications

KVA Ratings	10kVA, 15kVA, 25kVA, 37.5kVA, 50kVA, 75kVA, 100kVA, 167kVA, 250kVA, 333kVA, 500kVA(special), 667kVA (special)	Taps	Externally operated; 2A2B x 2.5% or 1A3B x 2.5%, 0A4B (designed taps)
Number of Phase	Single	Winding Materials	Copper-Aluminum (Cu-Al) Copper-Copper(Cu-Cu) (Special)
Insulation/ Cooling	Di-electric Fluid Immersed Self Cooled	HV Bushings	Single or Double Bushing
Di-electric Fluid	Mineral Oil or High Fire Point Fluid	LV Bushings	3 or 4
Core Materials	Silicon Steel (SiFe) Amorphous (AMDT)	Applicable Standards	ANSI/ IEEE/ NEMA
Winding Temp Rise	65°C	Application	Indoor or Outdoor
Frequency	60 Hz	Mounting	Pole mounted or pad mounted

Standard Models



FIRST PHILEC BLUE SERIES

Silicon Iron Distribution Transformers

The BLUE series offers high durability and premium quality. These transformers are designed, engineered and built to last.



FIRST PHILEC SILVER SERIES

NEA Compliant Distribution Transformers

The SILVER series conforms to NEA loss standards. Most appropriate for use by electric cooperatives and other private distribution utilities.



FIRST PHILEC GOLD SERIES

Amorphous Metal Distribution Transformers (AMDT)

The GOLD series is First Philec's high efficiency distribution transformer line. The core is made of amorphous metal which ensures lower No Load Losses (NLL) of as much as 30% than its SiFe counterparts. Ensures high efficiency and cost savings in the long run.



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Standard Dimensions (standard values only and may differ from actual product dimensions)

BLUE SERIES for PDUs
A. Silicon Models

HV Rating, BIL	LV Rating, BIL	Taps	KVA	Number of LV Bushings	Dimensions (mm)				Weight (kg)	Figure			
					A	B	C	D					
14.4/24.94Y kV, 125kV BIL	120/240, 30kV BIL	14400, 13800, 13200, 12870, 12540	25	3	665	590	745	1000	179	2			
			37.5	3	670	470	680	1020	227	2			
			50	3	735	715	935	1190	316	2			
			75	3	770	805	940	1195	363	2			
			100	3	790	950	935	1190	424	2			
			167	4	915	1040	1020	1275	607	2			
			25	3	635	565	845	1100	187	2			
			50	3	735	805	935	1190	369	2			
			13.8/23.9Y kV, 125kV BIL	120/240, 30kV BIL	2A2B, 2.5%	15	3	630	565	785	1040	171	2
						25	3	665	590	805	1060	216	2
37.5	3	705				630	825	1080	248	2			
50	3	735				660	885	1140	301	2			
75	3	805				750	935	1190	409	2			
100	3	830				840	935	1190	440	2			
75	4	860				750	935	1190	409	2			
100	4	860				840	935	1190	452	2			
167	4	915				950	990	1245	621	2			
250	4	925				1110	1060	1315	910	2			

Note: Dimensions and weight are all in approximate values.

SILVER SERIES (NEA Compliant)
A. Silicon Models

HV Rating, BIL	LV Rating, BIL	Taps	KVA	Number of LV Bushings	Dimensions (mm)				Weight (kg)	Figure
					A	B	C	D		
7620/13.2Y kV, 95kV BIL	120/240, 30kV BIL	2A2B, 2.5%	10	3	630	565	745	1000	166	2
			15	3	595	525	815	1015	160	2
			25	3	640	565	745	945	183	2
			37.5	3	665	590	805	1005	243	2
			50	3	705	630	825	1025	282	2
			75	3	805	695	935	1135	388	2
			100	3	885	815	940	1140	496	2

B. Amorphous Models

HV Rating, BIL	LV Rating, BIL	Taps	KVA	Number of LV Bushings	Dimensions (mm)				Weight (kg)	Figure
					A	B	C	D		
7620/13.2Y kV, 95kV BIL	120/240, 30kV BIL	2A2B, 2.5%	10	3	630	565	785	985	181	2
			15	3	660	590	805	1005	210	2
			25	3	705	630	825	1025	276	2
			37.5	3	770	695	785	985	336	2
			50	3	770	695	825	1025	375	2
			75	3	860	770	970	1170	538	2
			100	3	950	840	980	1182	663	2

Note: Dimensions and weight are all in approximate values.



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Standard Dimensions (standard values only and may differ from actual product dimensions)


BLUE SERIES
A. Silicon Models

HV Rating, BIL	LV Rating, BIL	Taps	KVA	Number of LV Bushings	Dimensions (mm)				Weight (kg)	Figure
					A	B	C	D		
7620/13.2Y kV, 95kV BIL	120/240, 30kV BIL	2A2B, 2.5%	10	3	570	505	710	910	118	2
			15	3	570	505	710	910	132	2
			25	3	605	530	820	1020	180	2
			37.5	3	670	595	890	1080	227	2
			50	3	670	650	940	1140	266	2
			75	3	770	805	940	1140	346	2
			100	3	830	890	990	1190	411	2
			167	4	905	1040	1020	1220	611	2
			250	4	920	1245	1065	1265	815	2
333	4	1105	1290	1065	1265	943	2			
7620/13.2Y kV, 95kV BIL	240/480, 30kV BIL	2A2B, 2.5%	10	3	570	505	710	910	118	2
			15	3	570	505	710	910	130	2
			25	3	595	530	820	1020	176	2
			37.5	3	670	595	890	1090	237	2
			50	3	670	650	940	1140	266	2
			75	3	775	800	940	1140	344	2
			100	3	775	890	990	1190	410	2
			167	4	905	1040	1020	1220	609	2
			250	4	920	1250	1065	1265	815	2
333	4	1055	1240	1115	1315	950	2			
14.4/24.94Y kV, 125kV BIL	120/240, 30kV BIL	14400, 13800, 13200, 12870, 12540	10	3	595	530	710	965	134	2
			15	3	595	530	750	1005	143	2
			25	3	640	565	790	1045	177	2
			37.5	3	670	470	680	1020	227	2
			50	3	670	650	940	1195	266	2
			75	3	770	805	940	1195	363	2
			100	3	830	945	940	1195	424	2
			167	4	905	1085	990	1245	603	2
			250	4	920	1335	1065	1320	838	2
333	4	1105	1335	1065	1320	978	2			
14.4/24.94Y kV, 125kV BIL	240/480, 30kV BIL	14400, 13800, 13200, 12870, 12540	10	3	595	530	710	965	134	2
			15	3	595	530	750	1005	145	2
			25	3	595	530	820	1075	177	2
			37.5	3	670	595	890	1145	245	2
			50	3	705	685	940	1195	266	2
			75	3	775	800	940	1195	380	2
			100	3	770	940	940	1190	424	2
			167	4	905	1085	940	1195	589	2
			250	4	920	1335	1060	1320	828	2
333	4	1055	1330	1115	1370	982	2			
34.5GrdY/19.92 kV, 150kV BIL	120/240, 30kV BIL	1A3B, 2.5%	10	3	595	530	750	1140	142	1
			15	3	635	565	750	1140	162	1
			25	3	640	565	810	1200	180	1
			37.5	3	705	630	870	1260	237	1
			50	3	670	650	940	1330	260	1
			75	3	740	820	940	1330	344	1
			100	3	930	935	990	1380	440	1
34.5GrdY/19.92 kV, 150kV BIL	139/277, 30kV BIL	1A3B, 2.5%	167	4	905	1040	940	1330	583	1
			250	4	960	1330	1065	1455	842	1
			333	4	1015	1290	1180	1570	1004	1

Note: Dimensions and weight are all in approximate values.



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General Description

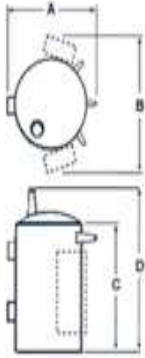


FIGURE 1

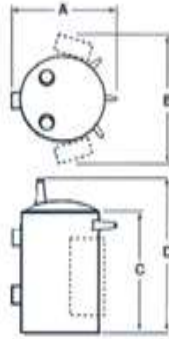


FIGURE 2

Maximum:

- KVA rating – 667 KVA (special)
- Voltage Rating: Up to 69KV

Warranty Provision

- 18 months from date of delivery or 12 months from date of energization whichever comes first.
- Manufacturer's warranty against defects occurring from normal operating conditions.

Our in-house Technical Services Department has a full complement of highly qualified and experienced technical personnel on call to service client concerns. Being a local manufacturer, immediate action on customer concerns is assured.

External Features

HIGH VOLTAGE BUSHINGS

The cover-mounted and tank-wall mounted high voltage bushings are made of wet process porcelain suitable for both copper and aluminum conductors

LOW VOLTAGE BUSHINGS

Single or double eyebolt or spade terminal made of wet process porcelain.

TANK AND COVER

Manufactured from hot-rolled steel sheets and pressure tested to ensure a leak free enclosure. Grit blasted or chemically treated to remove every trace of scale, rust or oil, for better paint adhesion. Outer and inner surfaces are primed with epoxy primer for rust prevention and the outer surface is coated with polyurethane.

PRESSURE RELIEF VALVE

Gradually releases excess pressure and designed for outdoor conditions

TANK AND LOW VOLTAGE GROUNDING PROVISIONS

Provided to help prevent damage to the transformer during electrical surges.

EXTERNALLY OPERATED NO-LOAD TAP CHANGER

Provides up to five (5) primary voltage settings for convenient changing of high voltage tap connection at no-load.

RADIATORS

Made of hot-rolled steel sheets these are provided for higher KVA units for added cooling surface

Standard Tests

Routine Tests

- Turns Ratio Test
- Voltage Ratio Test
- No Load Loss & Load Loss Tests
- Impedance Voltage Test
- Applied Potential Test
- Induced Potential Test

Type Tests

- Impulse Test
- Temperature Rise Test



Internal Features

CORE COIL ASSEMBLY

Uses a superior transformer insulation system and is permanently centered in the tank using a close fitted steel frame. Materials used for our coils are wither Silicon-Iron for our Blue and Silver series or Amorphous Metal for our Gold line.

WINDING MATERIAL

First Philec distribution transformers uses a combination of standard Copper-Aluminum or Copper-Copper winding materials.

INSULATING DI-ELECTRIC FLUID

The dielectric fluid used are either Mineral oil or an environment friendly high fire point fluid.

COIL SUPPORT

First Philec uses compatible materials to hold the coil in place and restrain it during short-circuit conditions. Core clamps and clamp angles are also used to ensure that the core and windings are effectively secured even during mechanical stresses.



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