

3. SERVICES AVAILABLE

3.1 FREQUENCY

The Company supplies alternating current only, at a nominal frequency of 60 hertz.

3.2 LOCATION OF SERVICE

Before proceeding with any work that involves the installation or relocation of Company meters and/or service connections, an "Application for Electric Service and Meter" (Company Form M-24175) shall be filed with the PECO Energy Distribution office for the region in which the work is to be performed.

3.3 AVAILABILITY OF SERVICE

Not all service voltages are available in all areas. Before purchasing electrical equipment or proceeding with any wiring, information regarding the types of service available should be obtained from the Company.

3.4 STANDARD SECONDARY SERVICES AND LIMITATIONS

3.4.1 Single Point Delivery

Unless otherwise stipulated, the rates named in the Tariff for each class of service are based upon its supply through a single delivery and metering point for the total requirements at each separate premises of the contracting Customer. Separate supply for the same Customer at other points of consumption shall be separately metered and billed.

Only one service is available to a building unless the demand of a polyphase secondary service exceeds the capacity for that voltage as described below. If the demand exceeds this capacity, additional secondary services at the same voltage level may be provided.

Note: If multiple secondary services are supplied in conjunction with an electric heating rate, the heating/air-conditioning load must be balanced between the services.

<u>Phases</u>	<u>Volts</u>	<u>Wires</u>	<u>Comments</u>
1	120	2	Not over two 15 AMP branch circuits
1	120/240	3	Maximum 150 kVA load (Notes 1 and 5)
1	120/208	3	For residential service where available in conjunction with standard 120/208 volt, 3-phase, 4 wire polyphase secondary (Note 5)
2	120/240	5	Minimum 7 1/2 HP polyphase load (Note 2)
3	240Δ	3 with ground	Minimum 7 1/2 HP polyphase load, (Notes 2 and 4 for availability.)
3	240Δ/120	4	Minimum 7 1/2 HP polyphase load, maximum demand of 15 kVA, 120/240 volt, single phase load on any one of the phases (Notes 2 and 4)

<u>Phases</u>	<u>Volts</u>	<u>Wires</u>	<u>Comments</u>
			See Fig. 8.08
			CAUTION: <u>Limited to maximum of 100kVA in areas supplied by 33kV. See Figure 8.20</u>
3	208Y/120	4	Minimum 7 1/2 HP polyphase load (Notes 2 and 3) See Fig. 8.08
3	480Y/277	4	Minimum 7 1/2 HP polyphase load (Notes 2 and 3) See Fig. 8.21, 8.22, 8.23

- 1) Single-phase secondary service is available for loads up to 150kVA. Loads in excess of this amount will be supplied polyphase service.
- 2) For polyphase loads aggregating less than 7 1/2 HP the excess cost of supplying polyphase rather than single-phase service shall be paid by the Customer.
- 3) A 480Y/277 volt or 208Y/120 volt service is available where accessible to grounded three-phase primary. The service is intended for the exclusive supply to a building or group of contiguous buildings occupied by one or more than one Customer. Transformers and secondary will be installed on the Customer's premises at a suitable location provided by the owner. The service capacity for 208Y/120 volt service is limited to 750 kVA for transformers located either inside or outside the building. The service capacity for a 480Y/277 volt service is limited to 750kVA for transformers located inside the building and 1500kVA for transformers located outside the building. For 208Y/120 service, when a suitable transformer location is not reasonably available on the premises and the demand does not exceed 100 kVA, service may be supplied at the Company's discretion from aerial distribution facilities located along public highways.

Note: The Company will not install indoor transformation in areas supplied by, or designated to be supplied by, 33,000 volts or greater.

- 4) Nominally 240 volts, 3-phase, 3-wires; a fourth wire neutral will be extended for the supply of 120/240 volt single-phase equipment in combination with the service where the service capacity required does not exceed 15kVA on any one of the phases, or a maximum of 45 kVA on the service. Larger single-phase requirements can be achieved by using lighting transformers that balance the load on the three-phase service, or a separate single-phase service.

Where the total demand to a single premise exceeds 100 kVA, transformers will be installed on the premises at a suitable location provided by the owner. The service capacity is limited to 300 kVA for transformers located inside the building and 750 kVA for transformers located outside the building.

CAUTION: Padmount transformers in areas supplied by 33,000 volts will supply 240Y/139 volt service. Not recommended for 1 ϕ load.

Note: The Company will not install indoor transformation in areas supplied by, or designated to be supplied by, 33,000 volts or greater.

- 5) The basic electric service to each residential dwelling unit shall be individually metered. When the Company bills each unit individually, the Company will provide the metering. When multiple dwelling units are supplied by a single service, the landlord is responsible for providing the metering.

3.5 **STANDARD HIGH TENSION SERVICES**

<u>Phases</u>	<u>Volts</u>	<u>Wires</u>
3	13,200	3 or 4
3	33,000	3 or 4 (See Company for 4-wire availability) (See Figure 12.38)
3	69,000	3
3	138,000	3
3	230,000	3

3.6 **TEMPORARY SERVICE**

3.6.1 **Term**

The Company will supply a temporary service to be used for a limited period of time or to supply a service of doubtful permanency. An example is a service to a builder at a construction site. A temporary service will be supplied only where capacity is readily available and it will not interfere in any way with service to other Customers. The Company will install and remove the facilities and make connection to the Customer's service point. All temporary contracts shall be in accordance with the Tariff requirements and the Company shall be consulted beforehand.

3.6.2 **Charges**

The cost of the connection and disconnection of the service supply and of any equipment and extension of facilities required to furnish the temporary service shall be paid by the Customer, but such payment shall not confer upon, nor entitle the Customer to any title to, or right of property in, such facilities and equipment.

NOTE: Any reference in this section to Figures 8.?? or 12.?? can be found in Sections 8 or 12, of this book, titled "Metering" & "Illustrations" respectively.