

Minimum Requirements for Self-Contained Service Point Enclosures

Table A covers minimum requirements for all self-contained metering installations. Additional requirements for each installation based on the tables below:

- A. Requirements For All Service Point Enclosures
- B. Overhead Services
- C. Underground Services
- D. Positions
- E. Polyphase
- F. Pedestal

Examples:

- 1PH OH Service to a 1-position meter base – refer to tables A and B
- 3PH UG Service to a 3-position meter stack - refer to tables A, C, D, and E
- 1PH UG Service to a pedestal – refer to tables A and F

Table A: Requirements For All Service Point Enclosures

Installation and Clearances	Installation, mounting, and working area clearances are specified in the REMSI Sketches.
Product Certifications	All meter bases, metering transformer cabinets and all other enclosures and equipment, including any connector systems must be listed for its intended application by a recognized testing organization such as UL®.
Cover	Ringless cover style only with hasp to accommodate wire seal (1/4-inch hold minimum).
Labeling	Manufacturer’s catalog number stamped on outside of the base.
NEMA Rating	Outdoor NEMA 3R rated. Some extreme conditions may require NEMA 4X rated enclosure.
Voltage Rating	Rated 600V AC. Exceptions require authorization by PPL EU, or when required by the NEC® and approved by PPL EU.
Short-Circuit Rating	Minimum short-circuit withstand rating of 10,000A.
Service Disconnect	Not permitted before the metering point. Exceptions require authorization by PPL EU, or when required by the NEC® and approved by PPL EU.
Corrosion Inhibitor	Inhibitors of the non-grit type must be used on all aluminum conductors (sparingly).
Bypass	<p>Bypasses rated at 100% continuous duty are required on every self-contained meter base.</p> <p>Single-phase service: - 100A-200A bypass – horn or lever* - 320A (400A service) – lever*</p> <p>Poly-phase service: - 100-320A (400A Service) – lever*</p> <p>* For installations using a bypass lever, a safety arc shield must separate the lever from any energized part.</p>
Factory Bussing	Factory bussing is required, NO wire jumpers.
120/208V Neutral	For 120/208V service, a 5th meter terminal is required to be in the 9:00 o'clock position and connected to the neutral. The 5th terminal must be specified when purchasing the base.
Wireway	Wires carrying metered and unmetered current shall not occupy the same raceway, cable assembly, fitting box, or other enclosure.
Stud Terminals	3/8-inch diameter stud terminals capable of pulling tensions up to 400-lbs force. Compression connectors are not permissible.
Barriers	Barriers and individual covers are required between all compartments, including circuit breakers, metered cables and unmetered cables.

Additional requirements apply based on the service method, number of phases, and type of the Service Point Enclosure.

Additional Requirements for Self-Contained Service Point Enclosures

		Socket Type			
		Number of Positions		Meter Mains	Pedestal
		1-2	2-6		
Table B: Overhead Services					
Hub	Service entrance wires that will connect to an overhead service drop shall enter the meter enclosure only through the hub provided at the top of the cabinet.	x	x	x	Table F

Table C: Underground Services					
Knockout	The knockout must be sized to accommodate the conduit specified for the service conductor. - 200A – KO under line must accept 3-inch conduit - 400A – KO under line must accept 4-inch conduit, KO under load must accept two 3 ½-inch conduits	x	x	x	Table F
Cable Bending	To comply with NEC and safe work methods, underground meter bases requiring an 180-deg bend are not permitted.	x	x	x	Table F

Table D: 2-6 Positions	
Unused Positions	Unused meter socket positions shall have individual meter closing plates designed to guard exposed live parts. Paper/cardboard closing plates are not acceptable.
Spacing	8 ½-, 9-, or 10-inch socket center spacings are acceptable
Meter Guides	Meter guides are required in all positions.
Termination Compartment	Required before the metering point.

Table E: Polyphase	
Class	200A polyphase meter bases must be marked "200 Amp Capacity"
Neutral	For all polyphase - third jaw from the left (viewed from front) must be connected to neutral using #14 awg or larger copper wire
Hub	For polyphase overhead services, the top entry hub shall be sized by the conductor size being used, identified by PPL EU: 350 kcmil connector – 2 ½-inch minimum hub 500 kcmil connector – 3-inch minimum hub 800 kcmil connector – 3 ½-inch minimum hub

Table F: Pedestal

Labeling	Exterior marked with "Continuous Duty Rating" of 200A.
Meter Guides	Must have guides on at least 2 jaws.
Connectors	Must have approved bus type connectors for #1/0, 4/0, or 350 kcmil Cu or Al conductors.
Stabilizing	Must have a stabilizing foot.
Covers	Wiring trough cover must be removable after pedestal installation.
Sealing	Wiring trough and any other unmetered compartments must have sealing provisions.
Conduit Support	Where conduit is required for service lateral, a conduit support approximately 3 feet below the meter base must be provided.
Short-Circuit Rating	The main breakers and branch breakers must have a minimum short-circuit withstand rating of 10,000A.
Neutral	The neutral must be bondable and have a provision for grounding electrode conductor connection.
Load Serving	Provisions must be provided for connecting additional equipment outside the mobile home by fixed wiring.
Circuit Breakers	Equipment must accommodate 2-2 pole or 4-1 pole, or 1-2 pole and 2-1 pole circuit breakers
Corrosion	The bottom 2-inches of the electrical pedestal's base, both inside and outside, must be pre-coated at the factory with a corrosion-resistant material like bitumastic or an equivalent substance.
Moisture Barrier	Moisture barrier must be provided in the line side wiring compartment.
Two Meter Units	Double line terminals are required on two-meter base units.