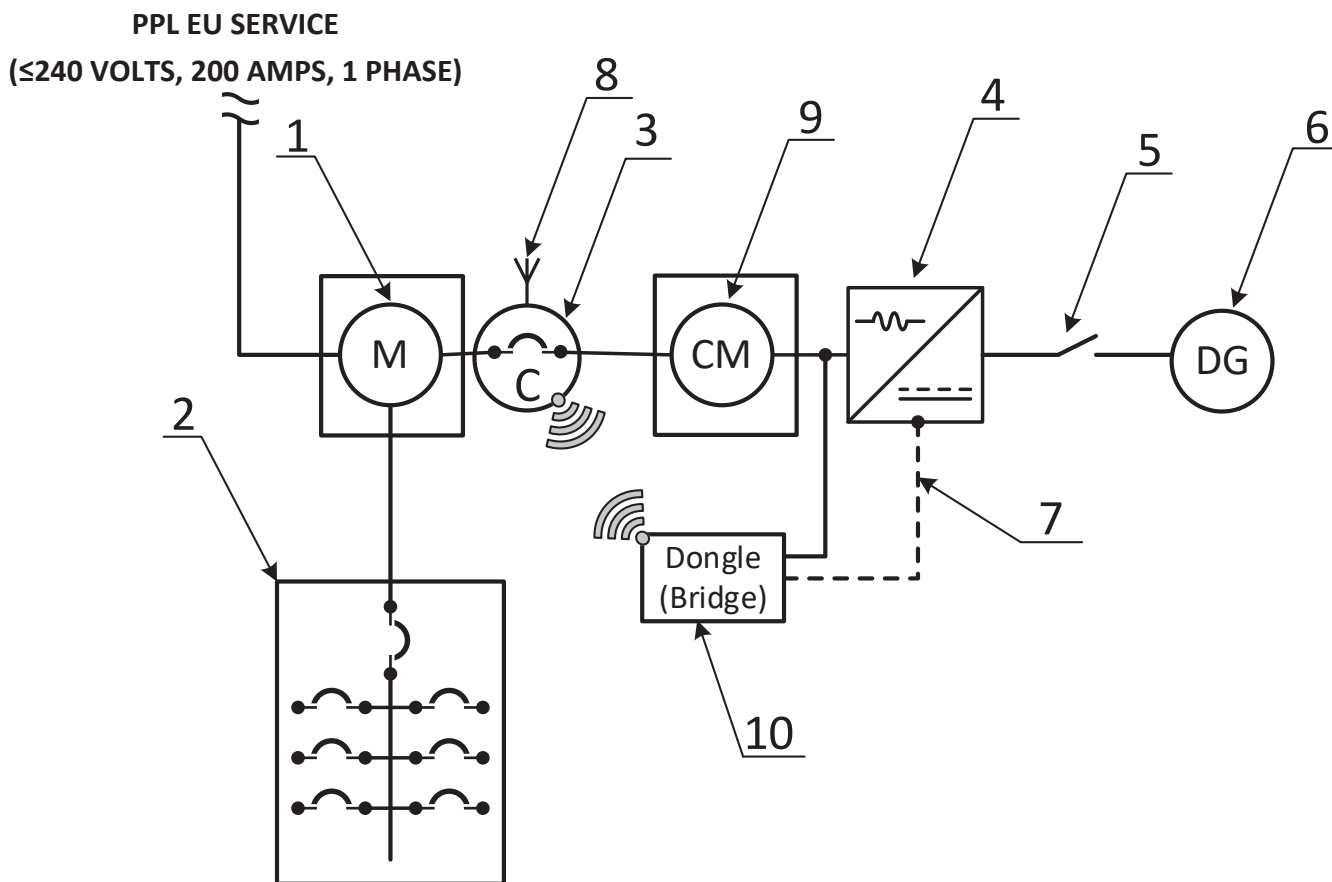


**Sketch #56 Inverter-based renewable generation for DG capacity ≤ 64.4 amps for meter base size ≤ 200 amps for ≤ 240V installations.**

<u>Voltage/ Phase:</u> 1 phase, 3 wire Network 120/208V* 1 phase, 3 wire 120/240V*	<u>Amperage:</u> 200 Amps maximum	<u>Inverter Continuous Current</u> ≤ 64.4 Amps
<u>Service Type:</u> Overhead/Underground	<u>Meter Type/Location:</u> Self-contained/Outdoor	<u>Bus Bar Rating:</u> N/A

\* The maximum parallel connection (generation) permitted on a single-phase installation is 150 kW.

**DER SYSTEMS WITH TOTAL SYSTEM INVERTER CONTINUOUS CURRENT LESS THAN 64.4 AMPS.**



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RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS <b>PPL ELECTRIC UTILITIES CORPORATION</b>	<b>Rules:</b> 12, 28 <b>Date:</b> 10/11/2021 Engr: NHK
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REMSI Sketches 51-100  
Sketch #56  
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**Sketch #56 (cont.) Inverter-based renewable generation for DG capacity  $\leq$  64.4 amps for meter base size  $\leq$  200 amps for  $\leq$  240V installations.**

**CUSTOMER FURNISHES, INSTALLS, MAINTAINS**

2. LOAD CENTER
4. INVERTER(S) (INCLUDES METERING AND COMMUNICATIONS FEATURES)
5. DC DISCONNECT
6. DISTRIBUTED GENERATION (DG) SOURCE
9. CUSTOMER METER (OPTIONAL)

**PPL EU FURNISHES, INSTALLS, MAINTAINS**

1. UTILITY METER
3. PPL METER COLLAR WITH CIRCUIT BREAKER – CURRENT  $\leq$  64.4 AMPS  
(IF COLLAR IS PPL OWNED, IT MAY FUNCTION AS THE AC DISCONNECT).
7. WIRED COMMUNICATION TRANSMISSION BETWEEN PPL DONGLE AND INVERTER  
(FOR PPL METER COLLAR).
8. COMMUNICATION TRANSMISSION BETWEEN PPL METER COLLAR AND AMI/PPL EU  
(FOR PPL METER COLLAR - INTERNAL ANTENNA).
10. PPL WIFI COMMUNICATION DONGLE (BRIDGE) TO PPL METER COLLAR.

\*Reference: SKETCH 55a

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RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS <b>PPL ELECTRIC UTILITIES CORPORATION</b>	<b>Rules:</b> 12, 28 <b>Date:</b> 10/11/2021 Engr: NHK
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REMSI Sketches 51-100  
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**Sketch #56 (cont.) Inverter-based renewable generation for DG capacity ≤ 64.4 amps for meter base size ≤ 200 amps for ≤ 240V installations.**

**NOTES:**

- A. SEE PPL EU RENEWABLE ENERGY (DER) WEBSITE FOR MORE INFORMATION.
- B. APPLICATION FOR CUSTOMER-OWNED, INVERTER-BASED RENEWABLE GENERATION MUST BE COMPLETED. SEE CUSTOMER-OWNED GENERATION APPLICATIONS.
- C. PPL EU REQUIRES AN INDEPENDENT ELECTRICAL INSPECTION. THE INSPECTOR IS REQUIRED TO VERIFY THE IEEE/UL LISTING OF THE INVERTER.
- D. INSTALLATION MUST ADHERE TO REQUIREMENTS OF NATIONAL ELECTRICAL CODE ARTICLE 690 AND ARTICLE 705.
- E. ALL LABELING MUST BE IN ACCORDANCE WITH NEC ARTICLE 690.
- F. IN ADDITION TO NOTE D, PPL EU WILL INSTALL PERMANENT LABELING ON THE METER BASE PPL EU CATALOG (CID 1012171) AND PAD MOUNT TRANSFORMER (CID 1012171) OR POLE MOUNT TRANSFORMER (CID 1013816) UPON RECEIPT OF INSPECTION.
- G. IF A NEUTRAL CONNECTION EXISTS AT THE INVERTER, THE INVERTER NEUTRAL SHALL BE CONNECTED TO THE SERVICE NEUTRAL.
- H. CUSTOMER SHALL CONTACT PPL EU PRIOR TO ANY NEW INSTALLATIONS DEPICTED IN THIS SKETCH.
- I. CUSTOMER EXCAVATES, PROVIDES SLEECT BACKFILL AND PPL EU SPECIFIES CONDUIT. BACKFILLS, TAMPERS IN LAYERS OVERDISTRIBUTED EARTH NEAR BUILDING FOUNDATION TO HELP PREVENT DAMAGE TO SERVICE ENTRANCE EQUIPMENT DUE TO GROUND SETTLING AND RESTORES SURFACE OF TRENCH FROM BASE OF POLE TO BUILDING.
- J. **PPL REQUIRES A LOCAL RS-485 OR ETHERNET COMMUNICATION INTERFACE, ALSO REFERRED TO AS A COMMUNICATION PORT, TO BE OPEN AND ACCESSIBLE FOR THE COMPANY OWNED DER MANAGEMENT DEVICE (IEEE 1547-2018, SEC. 10.1,4).**
- K. **INSTALLATIONS WITH MULTIPLE INVERTERS SHALL BE NETWORKED TOGETHER BY THE CUSTOMER PER MANUFACTURER GUIDELINES OR RS-485 MULTIDROP NETWORKING. A COMMUNICATION NETWORK DIAGRAM DEPICTING PORT AVAILABILITY AND NETWORKING DESIGN SHALL BE INCLUDED WITH THE SYSTEM'S INTERCONNECTION APPLICATION.**
- L. **FOR INVERTERS WHERE AN ADDITIONAL MODULE OR KIT IS REQUIRED TO MAKE THE COMMUNICATION INTERFACE/PORT AVAILABLE, THE MODULE OR KIT MUST BE INCLUDED AS PART OF THE INSTALLED SYSTEM. REFERENCE PPL'S APPROVED SOLAR INVERTER LIST FOR SPECIFIC INFORMATION.**
- M. **IN THE EVENT OF AN OUTAGE OR INTERRUPTION DUE TO EQUIPMENT FAILURE, WEATHER, ETC., ANY CONNECTED DER SYSTEMS MAY BE TEMPORARILY INTERRUPTED DURING THE SERVICE RESTORATION PROCESS.**

\*Reference: SKETCH 55a

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<p>RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS <b>PPL ELECTRIC UTILITIES CORPORATION</b></p>	<p><b>Rules:</b> 12, 28 <b>Date:</b> 10/11/2021 Engr: NHK</p>
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