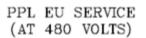
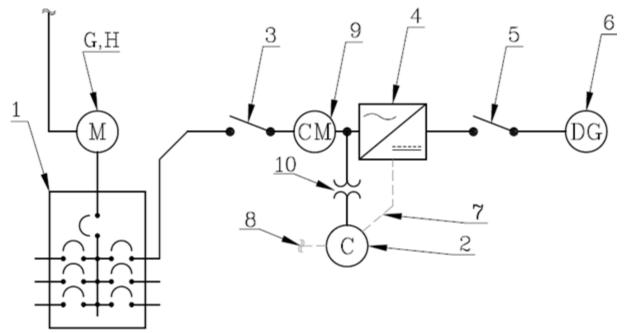


Sketch #57 Inverter-based renewable generation for DG capacity up to and including 20% of the load center bus bar rating for 480V. self-contained metering installations

Voltage: 1 Phase, 3 Wire Network 277/480V* 1 Phase, 3 Wire 240/480V* 3 Phase, 4 Wire WYE 277/480V	Service Type: Overhead / Underground
<u>Amperage:</u>	Meter Base Location:
400 Amps Maximum	Outdoor

* The maximum generation permitted on single phase installation without prior PPL EU approval is 150 kW





* Reference: SKETCH 55a		REMSI_S057P1dwg
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Sketch #57 Inverter-based renewable generation for DG capacity up to and including 20% of the load center bus bar rating for 480V. self-contained metering installations (cont.)

CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

- 1. LOAD CENTER
- 3. AC DISCONNECT SWITCH (FUSED)
- 4. INVERTER(S) (INCLUDES METERING AND COMMUNICATION FEATURES) INVERTER SHALL BE LABELED AS IEEE 1547/UL 1741 LISTED.
- 5. DC DISCONNECT
- 6. DISTRIBUTED GENERATION (DG) SOURCE
- 9. CUSTOMER'S METERING (OPTIONAL)

PPL EU FURNISHES, INSTALLS, MAINTAINS

- 2. ConnectDER™ COLLAR ("SMART VERSION) WITH 120/240 VAC. ADDITIONAL CONTROL POWER TRANSFORMER MAY BE REQUIRED.
- 7. COMMUNICATION TRANSMISSION BETWEEN COLLOR AND INVERTER (FOR "SMART" VERSION)
- 8. COMMUNICATION TRANSMISSION BETWEEN COLLOR AND AMI PPL EU (FOR "SMART" VERSION)
- 10. ConnectDER[™] POWER TRANSFORMER (IF REQUIRED)

NOTES:

- A. SEE PPL EU CUSTOMER-OWNED GENERATION 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 METERBASE (PPL EU CATALOG #1012171) AND PAD MOUNT TRANSFORMER (CID 1012171) OR POLE MOUNT TRANSFORMER (CID 1013816) UPON RECEIPT OF INSPECTION

*Reference: SKETCH 55a

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Sketch #57 Inverter-based renewable generation for DG capacity up to and including 20% of the load center bus bar rating for 480V. self-contained metering installations (cont.)

- G. METERING 480V SELF-CONTAINED SEE SELF-CONTAINED 480V METERING SERIES ORGANIZATION MAP TO DETERMINE APPROPRIATE SKETCH FOR SERVICETYPE AND SIZE, FOR METERING REQUIREMENTS, AND RESPONSIBILITIES. FOREIGN ENERGY SOURCES SHALL NOT BE CONNECTED DIRECTLY TO METERING EQUIPMENT. SEE RULE 12.
- H. INSTALLATIONS REQUIRING 480V SELF-CONTAINED METERING FOLLOWING SKETCH #71 OR SKETCH #72 REQUIRES PPL EU REVIEW AND APPROVAL.
- I. IF A NEUTRAL CONNECTION EXISTS AT THE INVERTER, THE INVERTER NEUTRAL SHALL BE CONNECTED TO THE SERVICE NEUTRAL.
- J. CUSTOMER SHALL CONTACT PPL EU PRIOR TO ANY NEW INSTALLATIONS DEPICTED IN THIS SKETCH.
- K. 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).
- L. 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.
- M. 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.

*Reference: SKETCH 55a

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