

**RULES FOR ELECTRIC METER
& SERVICE INSTALLATIONS**



MASTER SKETCH - INDEX

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VOLTAGE: 3 Phase, 4 Wire 120/208V 3 Phase, 4 Wire 120/240V	SERVICE TYPE: Underground				
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<p>VOLTAGE: 3 Phase, 4 Wire Wye 277/480V 3 Phase, 4 Wire Wye 120/208V</p>	<p>SERVICE TYPE: Underground</p>				
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<p>VOLTAGE: 1 Phase, 2 Wire 120V 1 Phase, 3 Wire 120/208V Network 1 Phase, 3 Wire 120/240V 3 Phase, 4 Wire WYE 120/208V 3 Phase, 4 Wire Delta 120/240V</p>	<p>SERVICE TYPE: Underground</p>				
<p>AMPERAGE: 200 A</p>	<p>METER BASE LOCATION: Outdoor</p>				
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<p>AMPERAGE: 100 A Maximum</p>	<p>METER BASE LOCATION: Outdoor</p>				
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<p>VOLTAGE: 1 Phase, 3 Wire Network 120/208V 1 Phase, 3 Wire 120/240V 3 Phase, 4 Wire WYE 120/208V 3 Phase, 4 Wire Delta 120/240V</p>	<p>SERVICE TYPE: Overhead Underground</p>				
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<p>VOLTAGE: 3 Phase, 4 Wire WYE 7,200/12,470V</p>	<p>SERVICE TYPE: Overhead</p>				
<p>CUSTOMER LOAD: 4 MVA Maximum</p>					

Sketch 31
Updated 9/19/2016

Pages 1 & 2 - High voltage service, overhead service drop to customer's service disconnect on customer-owned service pole, termination of customer-owned underground distribution, 15 kV or less

VOLTAGE: 3 Phase, 4 Wire WYE 7,200/12,470V	SERVICE TYPE: Underground
CUSTOMER LOAD: 4 MVA Maximum	

Sketch 32
updated 9/19/2016

Pages 1 & 2 - High voltage service, arrangement of customer's single phase service disconnect on customer-owned service and meter pole 7.2 kV or less

VOLTAGE: 1 Phase, 7,200V	SERVICE TYPE: Overhead & Underground
CUSTOMER LOAD: 1 MVA Maximum	METER BASE LOCATION: Outdoor

Sketch 33
updated 9/19/2016

Pages 1 & 2 - High voltage service, typical arrangement of three phase outdoor metering equipment on customer-owned meter pole, overhead line to overhead distribution, 15 kV or less

VOLTAGE: 3 Phase, 4 Wire WYE 7,200/12,470V	SERVICE TYPE: Overhead
CUSTOMER LOAD: 4 MVA Maximum	METER BASE LOCATION: Outdoor

Sketch 34
updated 9/19/2016

Pages 1 & 2 - High voltage service, typical arrangement of three phase outdoor metering equipment on customer-owned pole, termination of customer-owned underground distribution 15kv or less

VOLTAGE: 3 Phase, 4 Wire WYE 7,200/12,470V	SERVICE TYPE: Underground
CUSTOMER LOAD: 4 MVA Maximum	METER BASE LOCATION: Outdoor

Sketch 39 updated 9/19/2016	High voltage service, 3 Phase 4 Wire One line diagram for typical arrangement of customer's service disconnect and metering instrument transformers in switch gear compartments, 12 kV			
	<table border="1"> <tr> <td> VOLTAGE: 3 Phase, 4 Wire WYE 7,200/12,470V </td> <td> SERVICE TYPE: Underground </td> </tr> <tr> <td> CUSTOMER LOAD: 4 MVA Maximum </td> <td> METER BASE LOCATION: Indoor </td> </tr> </table>	VOLTAGE: 3 Phase, 4 Wire WYE 7,200/12,470V	SERVICE TYPE: Underground	CUSTOMER LOAD: 4 MVA Maximum
VOLTAGE: 3 Phase, 4 Wire WYE 7,200/12,470V	SERVICE TYPE: Underground			
CUSTOMER LOAD: 4 MVA Maximum	METER BASE LOCATION: Indoor			

Sketch 40 updated 6/25/04	High voltage underground supply from overhead-secondary voltage source Typical arrangement of structural facilities installed by customer to accommodate underground service from a 3 phase pad-mounted distribution transformer 75 kVa to 2500 kVa capacity
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Emergency (Stand-by) Generation Organization Map

Sketch 41 updated 7/29/2011	Page 1 – Generator Feeding Partial Load Page 2 – Generator Feeding Full Load Manual Double Throw Transfer Switch Connection for Emergency (Stand-by) Generation Service			
	<table border="1"> <tr> <td> VOLTAGE: 1 Phase, 3 Wire Network 120/208V 1 Phase, 3 Wire 120/240V 3 Phase, 3 Wire Delta 480V 3 Phase, 4 Wire WYE 120/208V 3 Phase, 4 Wire Delta 120/240V 3 Phase, 4 Wire WYE 277/480V </td> <td> SERVICE TYPE: Overhead Underground </td> </tr> <tr> <td> AMPERAGE: 4000 A Maximum </td> <td> METER BASE LOCATION: Outdoor </td> </tr> </table>	VOLTAGE: 1 Phase, 3 Wire Network 120/208V 1 Phase, 3 Wire 120/240V 3 Phase, 3 Wire Delta 480V 3 Phase, 4 Wire WYE 120/208V 3 Phase, 4 Wire Delta 120/240V 3 Phase, 4 Wire WYE 277/480V	SERVICE TYPE: Overhead Underground	AMPERAGE: 4000 A Maximum
VOLTAGE: 1 Phase, 3 Wire Network 120/208V 1 Phase, 3 Wire 120/240V 3 Phase, 3 Wire Delta 480V 3 Phase, 4 Wire WYE 120/208V 3 Phase, 4 Wire Delta 120/240V 3 Phase, 4 Wire WYE 277/480V	SERVICE TYPE: Overhead Underground			
AMPERAGE: 4000 A Maximum	METER BASE LOCATION: Outdoor			

Sketch 41A
updated 7/29/2011

Page 1 – Generator Feeding Partial Load
Page 2 – Generator Feeding Full Load

Automatic Transfer Switch Connection for Emergency (Stand-by) Generating Service

VOLTAGE: 1 Phase, 3 Wire Network 120/208V 1 Phase, 3 Wire 120/240V 3 Phase, 3 Wire Delta 480V 3 Phase, 4 Wire WYE 120/208V 3 Phase, 4 Wire Delta 120/240V 3 Phase, 4 Wire WYE 277/480V	SERVICE TYPE: Overhead Underground
AMPERAGE: 4000 A Maximum	METER BASE LOCATION: Outdoor

Sketch 41B
updated 7/29/2011

Page 1 - Generator Feeding Partial Load
Page 2 - Generator Feeding Full Load

Manual Transfer Switch Connection for Emergency (Stand-by) Generating Service

VOLTAGE: 1 Phase, 7,200V 3 Phase, 4 Wire WYE 7,200/12,470V	SERVICE TYPE: Overhead
AMPERAGE: 11 MVA Maximum	METER BASE LOCATION: Outdoor

Sketch 41C
updated 7/29/2011

Page 1 - Generator Feeding Partial Load
Page 2 - Generator Feeding Full Load

Automatic Transfer Switch Connection for Emergency (Stand-by) Generating Service

VOLTAGE: 1 Phase, 7,200V 3 Phase, 4 Wire WYE 7,200/12,470V	SERVICE TYPE: Overhead
AMPERAGE: 11 MVA Maximum	METER BASE LOCATION: Outdoor

Sketch 41D
updated 7/29/2011

Manual Transfer Switch Connection for Emergency (Stand-by) Generating Service

VOLTAGE: 3 Phase, 4 Wire WYE 7,200/12,470V	SERVICE TYPE: Overhead Underground
AMPERAGE: 11 MVA Maximum	METER BASE LOCATION: Indoor Outdoor

Sketch 41E updated 7/29/2011	Automatic Transfer Switch Connection for Emergency (Stand-by) Generating Service <table border="1" data-bbox="488 281 1385 489"> <tr> <td data-bbox="488 281 1005 384"> VOLTAGE: 3 Phase, 4 Wire WYE 7,200/12,470V </td> <td data-bbox="1010 281 1385 384"> SERVICE TYPE: Overhead Underground </td> </tr> <tr> <td data-bbox="488 390 1005 489"> AMPERAGE: 11 MVA Maximum </td> <td data-bbox="1010 390 1385 489"> METER BASE LOCATION: Indoor Outdoor </td> </tr> </table>	VOLTAGE: 3 Phase, 4 Wire WYE 7,200/12,470V	SERVICE TYPE: Overhead Underground	AMPERAGE: 11 MVA Maximum	METER BASE LOCATION: Indoor Outdoor
VOLTAGE: 3 Phase, 4 Wire WYE 7,200/12,470V	SERVICE TYPE: Overhead Underground				
AMPERAGE: 11 MVA Maximum	METER BASE LOCATION: Indoor Outdoor				
Sketch 42 updated 7/28/2004	Multi-meter installation for overhead service drop attachment for mobile home court				
Sketch 43 updated 7/28/2004	Multi-meter installation for underground service lateral attachment for mobile home court				
Sketch 44 updated 6/25/2004	Service drop attachment to customer-owned service and meter pole for a mobile home Single phase 120/240 volts Self-contained meter				
Sketch 45 updated 11/4/2004	Typical arrangement of outdoor mobile home pedestal Underground service lateral Single phase, 3 wire, 120/208 volts or 120/240 volts				
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Sketch 47 updated 09/19/2016	Customer Wood Pole-Dimensional details in accordance with American National Standards Institute (ANSI) 05.1				
Sketch 48 updated 9/19/2016	Vertical sealable wire trough, typical method of providing single point of connection, multiple service entrance conductors				
Sketch 49 updated 8/12/2011	Page 1 - Insulated Type Distribution Block I-1 & I-2, Bare Type Distribution Block B-1 & B-2 Page 2 - Pre-Assembled Distribution Block With Insulating Barriers Typical Connectors to be provided by the customer for serving a single point of connection for multiple enclosed service entrance conductors Distribution Block Connectors when used for Service Drop connections to service entrance conductors shall be covered to avoid inadvertent contact. Except the neutral connection of service cable assemblies may be bare.				

Sketch 49A updated 2/22/2005	Typical connector to be supplied by the customer for providing a single point of connection Multiple overhead service entrance conductors				
Sketch 50 updated 9/19/2016	Underground Three phase, 4 wire, 480/277 volt Service entrance arrangements				
Sketch 53 updated 7/15/2015	Typical arrangement of wood post pedestal Underground service lateral from OH or UG distribution Single phase, 3 wire, 120/208 or 120/240 volts				
Sketch 54 updated 9/19/2016	Termination cabinet-all service entries, single phase or three phase 120/208 volts or 120/240 volts, with 2 to 6 sets of cable				
Sketch 54a updated 9/19/2016	Termination cabinet, all service entries, single phase or three phase, 120/208 volts or 120/240 volts or 277/480V, 1 cable set				
Sketch 55 updated 8/12/2011	Page 1 & 2 - Clearances between gas facilities and electric meters				
Sketch 55a updated 12/05/2008	Clearances between objects and electric meters				
Distributed (Renewable) Generation Organization Map Customer shall contact PPL EU prior to any new installations depicted in these sketches.					
Sketch 56 updated 9/19/2016	Page 1 & 2 - Inverter-based renewable generation for generator capacity up to and including 20% of the load center bus bar rating-for self-contained metering (240V and below) installations <table border="1" data-bbox="488 1520 1383 1801"> <tr> <td data-bbox="488 1520 997 1696"> VOLTAGE: 1 Phase, 3 Wire Network 120/208V *, ** 1 Phase, 3 Wire 120/240V ** 3 Phase, 4 Wire WYE 120/208V 3 Phase, 4 Wire Delta 120/240V </td> <td data-bbox="997 1520 1383 1696"> SERVICE TYPE: Overhead Underground </td> </tr> <tr> <td data-bbox="488 1696 997 1801"> AMPERAGE: * 400 A Maximum 600 A Maximum </td> <td data-bbox="997 1696 1383 1801"> METER BASE LOCATION: Outdoor </td> </tr> </table> <p data-bbox="488 1808 1383 1885">** The Maximum Generation Permitted On Single Phase Installation Without Prior PPL EU Approval is 100 kW.</p>	VOLTAGE: 1 Phase, 3 Wire Network 120/208V *, ** 1 Phase, 3 Wire 120/240V ** 3 Phase, 4 Wire WYE 120/208V 3 Phase, 4 Wire Delta 120/240V	SERVICE TYPE: Overhead Underground	AMPERAGE: * 400 A Maximum 600 A Maximum	METER BASE LOCATION: Outdoor
VOLTAGE: 1 Phase, 3 Wire Network 120/208V *, ** 1 Phase, 3 Wire 120/240V ** 3 Phase, 4 Wire WYE 120/208V 3 Phase, 4 Wire Delta 120/240V	SERVICE TYPE: Overhead Underground				
AMPERAGE: * 400 A Maximum 600 A Maximum	METER BASE LOCATION: Outdoor				

Sketch 56A
updated 9/19/2016

Page 1 & 2 - Inverter-based renewable generation for generator capacity over 20% of the load center bus bar rating-for self-contained metering (240V and below) installations

VOLTAGE: 1 Phase, 3 Wire Network 120/208V *, ** 1 Phase, 3 Wire 120/240V ** 3 Phase, 4 Wire WYE 120/208V 3 Phase, 4 Wire Delta 120/240V	SERVICE TYPE: Overhead Underground
AMPERAGE: * 400 A Maximum 600 A Maximun	METER BASE LOCATION: Outdoor
** The Maximum Generation Permitted On Single Phase Installation Without Prior PPL EU Approval is 100 kW.	

Sketch 58
updated 09/19/2016

Pages 1 & 2 - Inverter-based renewable generation for generator capacity up to and including 20% of the load center bus bar rating for CT cabinet/secondary metering installations

VOLTAGE: 1 Phase, 3 Wire Network 120/208V *, ** 1 Phase, 3 Wire 120/240V *, ** 3 Phase, 4 Wire WYE 120/208V 3 Phase, 4 Wire Delta 120/240V 3 Phase, 4 Wire WYE 277/480V 3 Wire, 3 Phase Delta 480V	SERVICE TYPE: Overhead Underground
AMPERAGE: * 1200 A Maximum 2000 A Maximum	METER BASE LOCATION: Outdoor
** The Maximum Generation Permitted On Single Phase Installation Without Prior PPL EU Approval is 100 kW.	

Sketch 58A
updated 09/19/2016

Pages 1 & 2 - Inverter-based renewable generation for generator capacity over 20% of the load center bus bar rating for CT cabinet/secondary metering installation

VOLTAGE: 1 Phase, 3 Wire Network 120/208V *, ** 1 Phase, 3 Wire 120/240V *, ** 3 Phase, 4 Wire WYE 120/208V 3 Phase, 4 Wire Delta 120/240V 3 Phase, 4 Wire WYE 277/480V 3 Wire, 3 Phase Delta 480V	SERVICE TYPE: Overhead Underground
AMPERAGE: * 1200 A Maximum 2000 A Maximum	METER BASE LOCATION: Outdoor
** The Maximum Generation Permitted On Single Phase Installation Without Prior PPL EU Approval is 100 kW.	

Sketch 59
updated 09/19/2016

Pages 1 & 2 - Inverter-based renewable generation for generator capacity up to and including 20% of the load center bus bar rating for 12 kV metering installations

VOLTAGE: 1 Phase, 7,200V * 3 Phase, 4 Wire WYE 7,200/12,470V	SERVICE TYPE: Overhead
CUSTOMER LOAD: 11 MVA Maximum	METER BASE LOCATION: Outdoor
* The Maximum Generation Permitted On Single Phase Installation Without Prior PPL EU Approval is 100 kW.	

Sketch 59A
updated 09/19/2016

Pages 1 & 2 - Inverter-based renewable generation for generator capacity over 20% of the load center bus bar rating for 12 kV metering installations

VOLTAGE: 1 Phase, 7,200V * 3 Phase, 4 Wire WYE 7,200/12,470V	SERVICE TYPE: Overhead
CUSTOMER LOAD: 11 MVA Maximum	METER BASE LOCATION: Outdoor
* The Maximum Generation Permitted On Single Phase Installation Without Prior PPL EU Approval is 100 kW.	

Sketch 59B
updated 09/19/2016

Pages 1 & 2 - Inverter-based renewable generation for 12 kV switchgear installation

VOLTAGE: 3 Phase, 4 Wire WYE 7,200/12,470V	SERVICE TYPE: Overhead Underground
CUSTOMER LOAD: 11 MVA Maximum	METER BASE LOCATION: Indoor Outdoor
* The Maximum Generation Permitted On Single Phase Installation Without Prior PPL EU Approval is 100 kW.	

Sketch 90
Updated 9/19/2016

Add new sketch
Pages 1 & 2 – typical arrangement of single phase outdoor metering equipment on customer-owned meter pole. 7.2 kV or less

VOLTAGE: 1 Phase, 7,200V	SERVICE TYPE: Overhead or Underground
CUSTOMER LOAD: 1 MVA Maximum	

4/2018