

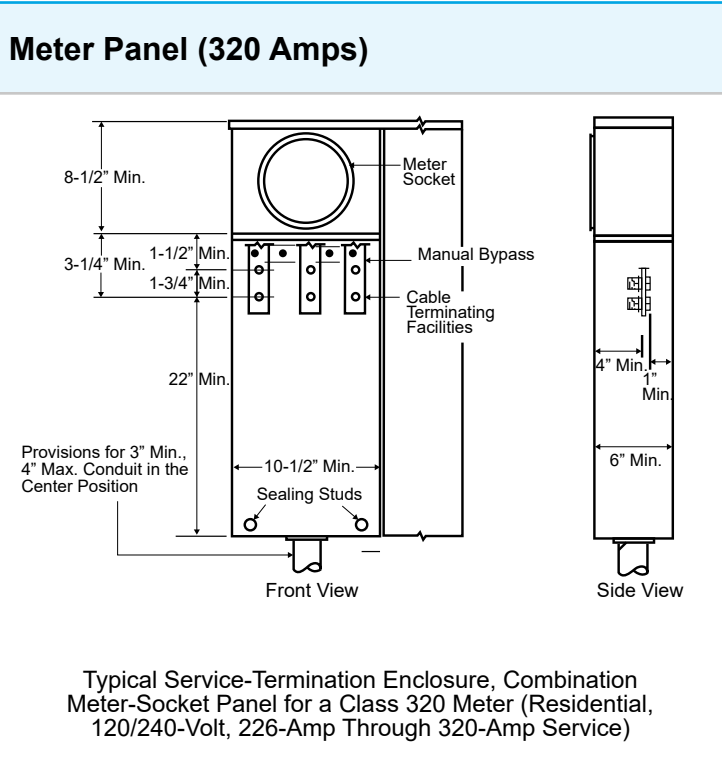
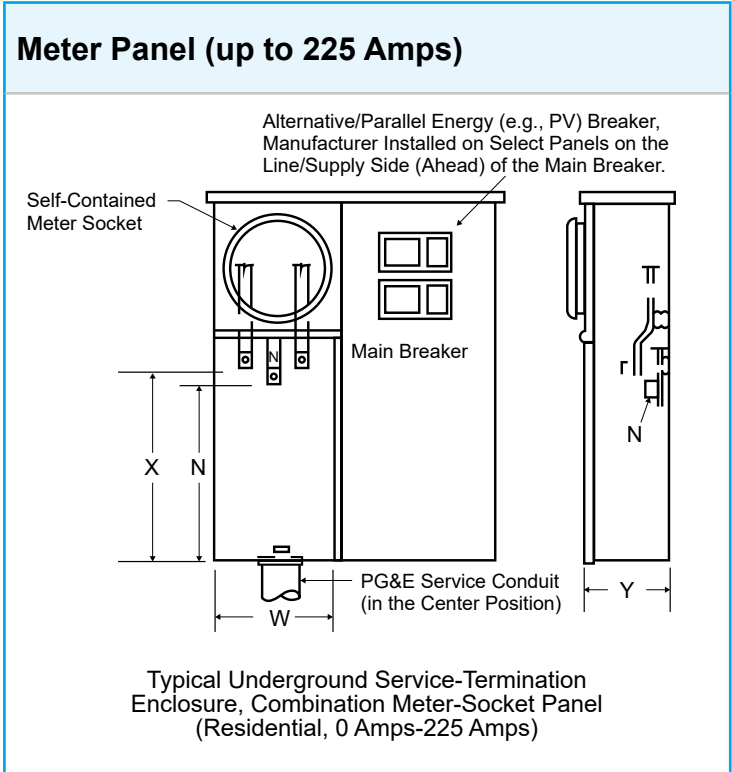


# Residential Panel Upgrade with an Upgraded Service Line Material List



See document 066211 PG&E Approved Electric Distribution Materials Manufacturers

1.	Meter Panel <sup>a</sup> – see Greenbook Sections 5 & 6
2.	Conduit <sup>b</sup> – see 6,8,9 of 062288
3.	Conduit couplings and elbows <sup>b</sup> – see pg. 6-11 of 062288 and 063927
4.	Conduit End bell fittings/cable protector – see pg. 10 of 062288
5.	Conduit Cement/Glue/Adhesive <sup>b</sup> – see pg. 3-4 of 062288
6.	Optional: Conduit primer – see pg. 3 of 062288
7.	Mandrel – see pg. 2 of 062288 and Greenbook Section 3.5
8.	Underground Service Cable <sup>c</sup> – see pg 5 039955 Table 2
9.	Backfill <sup>d</sup> – see pg. 3 of 038193
10.	Warning tape – see pg. 3-4 of 038193
11.	Main service disconnects (circuit breaker) – see Greenbook Section 5.7.1 and CEC
12.	Ground rods <sup>d</sup> – see Greenbook Section 5.8 and CEC
13.	Meter Identification plate attached by screws, rivets, or weatherproof adhesive, or stencil & paint – see Greenbook Section 5.5.1.



Item	Up to 125 Amps (Class 100)	126-225 Amps (Class 200)	226-320 Amps (Class 320)
(a) Panel Details – must be found within PG&E’s Greenbook Section 6			
Rating label	Rating up to 125 amps	Rating up to 225 Amps	“320 Amperes Continuous” or “400 Amperes Maximum (320 Amperes continuous)”
Main breaker	Required	Required	Required
Safety Bypass (built in manual bypass)	Optional	Optional	Required
Meter Socket	Ring Type; 4 Jaw terminal 120/240V		
Termination Compartment (X x Y x N x W inches)	8 x 4 x 6 x 6.5	11 x 5 x 8.5 x 6.5	See diagram for measurements

(b) Conduit – please see 066211 for PG&E approved manufacturer		
Conduit Size: <input type="checkbox"/> 2” (class 100) <input type="checkbox"/> 3” (class 200 and 320)		
Material: Coupling Size (2”, 3”)	<input type="checkbox"/> Rigid Steel (ANSI C60) & threaded fittings	<input type="checkbox"/> PVC (Sch. 40) & fittings
	Threaded steal (p x l): <input type="checkbox"/> 2.73” x 2.18” <input type="checkbox"/> 4” x 3.25”	PVC couplings: <input type="checkbox"/> 2” <input type="checkbox"/> 3”
Elbow vertical and horizontal radius (2”, 3”): <input type="checkbox"/> 24” x 36” <input type="checkbox"/> 24” x 36”		
Glue (PVC only): Oatey 30886/V and 30885/V		

(c) Underground Service Cables – please see 066211 for PG&E approved manufacturer			
Aluminum, Required to serve maximum load AWG or Kcmil	100: <input type="checkbox"/> Per phase: 1 – 1/10 Neutral: 1- #2	200: <input type="checkbox"/> Per phase: 1 – 4/0Neutral: 1- 1/0	320: <input type="checkbox"/> Per phase: 1 – 350 Neutral: 1- 4/0
Cable termination lugs	Must be suitable for usage with both aluminum and copper conductors along with being compatible with a range of conductor sizes		
(d) Other Materials			
Backfill	Soil that contains occasional rocks less than .5” is permitted Dirt clods greater than 6” are prohibited Rocks greater than 3” are prohibited within 6” of the conduit or 12” below the pavement subgrade		
Ground Rods	1-2 8’ rod with ¾” diameter – check with your AHJ to confirm local requirements		

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Ensure you review the latest standards and discuss with your rep the most applicable materials for your job.