

# Temporary Power Outlet Panels

## Application Information

The need for easily accessible receptacles to provide electrical power for various types of portable equipment continues to rise as Americans build more homes and travel in recreational vehicles (RVs).

In order to satisfy the electrical power needs of temporary service and meet the requirements of the National Electrical Code, a safe and reliable power outlet is required.

Murray introduces a complete line of UL Listed power outlets suitable for use as temporary service equipment and RV power supply panels. These power outlets are in full compliance with the 2002 National Electrical Code®, articles 527 and 551 as shown.



### Temporary Service

During the construction process, before the installation of permanent service, the various construction trades need access to electricity.

### 2008 NEC®, Section 590.3(a)

**(a) During the Period of Construction.** Temporary electrical power and lighting installations shall be permitted during the period of construction, remodeling maintenance, repair, or demolition of buildings, structures, equipment, or similar activities.

### Section 590.4(d)

**(d) Receptacles.** All receptacles shall be of the grounding type. Unless installed in a continuous grounded metal raceway or metal-covered cable, all branch circuits shall contain a separate equipment grounding conductor, and all receptacles shall be electrically connected to the equipment grounding conductors. Receptacles on construction sites shall not be installed on branch circuits that supply temporary lighting. Receptacles shall not be connected to the same ungrounded conductor of multiwire circuits that supply temporary lighting.

### RV Power Supply

Recreational vehicles with portable equipment need a reliable and safe source of AC power when parked.

### 2008 NEC, Sections 551.71, 81, 46(c) 551.71. Type Receptacles Provided.

Every recreational vehicle site with electrical supply shall be equipped with at least one 20-ampere, 125-volt receptacle. A minimum of 5 percent of all recreational vehicle sites, with electrical supply, shall each be equipped with a 50-ampere, 125/250-volt receptacle conforming to the configuration as identified in Figure 551.46(c). These electrical supplies shall be permitted to include additional receptacles that have configurations in accordance with the Section 551.81. A minimum of 70 percent of all recreational vehicle sites with electrical supply shall each be equipped with a 30-ampere, 125-volt receptacle conforming to Figure 551.46(c). This supply shall be permitted to include additional receptacle configurations conforming to Section 551.81. The remainder of all recreational vehicle sites with electrical supply shall be equipped with one or more of the receptacle configurations conforming to Section 551.81. Dedicated tent sites with a 15- or 20-ampere electrical supply shall be permitted to be excluded when determining the percentage of recreational vehicle sites with 30- or 50-ampere receptacles.

Additional receptacles shall be permitted for the connection of electrical equipment outside the recreational vehicle within the recreational vehicle park.

All 125-volt, single-phase, 15- and 20-ampere receptacles shall have listed ground-fault circuit-interrupter protection for personnel.

**551.81.** A receptacle to supply electric power to a recreational vehicle shall be one of the configurations shown in Figure 551.46 (c) in the following ratings.








**(a) 50-Ampere.** 125/250-volt, 50-ampere, 3-pole, 4-wire, ground type for 120/240-volt systems

**(b) 30-Ampere.** 125-volt, 30-ampere, 2-pole, 3-wire, ground type for 120-volt systems.

**(c) 20-Ampere.** 125-volt, 20-ampere, 2-pole, 3-wire, ground type for 120-volt systems.

FPN: Complete details of these configurations can be found in National Electrical Manufacturers Association's Standard for Dimensions of Attachment Plugs and Receptacles, ANSI/NEMA WD 6-1989, Figures 14-50, TT, and 5-20.

**Figure 551.46(c) Configurations for grounding-type receptacles and attachment plug caps used for recreational vehicle supply cords and recreational vehicle lots.**

Receptacles	Caps
	 125-V, 20-A, 2-pole, 3-wire, grounding type
20-A, 125-V, 2-pole, 3-wire, grounding type	 125-V, 15-A, 2-pole, 3-wire, grounding type
	
30-A, 125-V, 2-pole, 3-wire, grounding type	
	50-A, 125/250-V, 3-pole, 4-wire, grounding type



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