



Panelgard | PGFU Series

15 / 20 Amp Panelgard™ Series GFCI Receptacle

INTRODUCTION

The PanelGard™ 15 / 20 Amp Panelgard GFCI Utility Receptacle is a ground fault circuit interrupter receptacle designed and manufactured by North Shore Safety, Ltd., a leader in innovated safety products. The PGFU series product saves time and money by combining both internal and external control panel utility outlets in a single assembly. The assembly is entirely GFCI protected with TEST and RESET buttons accessible to maintenance personnel from the outside of the control panel. This unit offers the conveniences of internal control panel accessory power as well as external accessory power, while satisfying the NFPA 79 Electrical Standard for Industrial Machinery mandate that control panel utility outlets have GFCI protection. All of this is offered in one NEMA 4X rated package satisfying NFPA 79, 16.1.1(6) & 16.1.2.

In addition, electrical safety procedures mandated by NFPA 70e can now be addressed in a far safer, cost-effective manner. The PGFU product eliminates the risk and cost of maintenance personnel performing the required monthly GFCI “live power” functional test (NFPA 70e requires personnel to don protective clothing and gear, turning a simple 30 second test into a 30 minute task)

The PGFU gives you accessory power flexibility, convenience and above all, safety, in one compact package

SPECIFICATIONS

Listing Type	UL Recognized, Class A UL 943, CSA 22.2 No. 144
Rated Supply Voltage	120 VAC
Rated Current	Up to 20 Amps or rating of wiring device and/or cable
Trip Level	5mA +/- 1mA (UL 943)
Operating Frequency	60 Hz
Response Time	25mS max
Operating Temperature	-35°C to 66°C
Operating Voltage Range	85% to 110% of rated VAC
Panel Cutout	Standard DIN 32 punch
Overall Dimensions	5.0" x 4.5" x 4.0"

REGULATORY & APPLICATION SUMMARY

The NFPA 79 Electrical Machinery Safety Standard now requires the following:

- GFCI's required on all receptacles, internal and external, to the control cabinet

16.1.2 Receptacles for Maintenance Personnel - Receptacles, which are part of the industrial machine, either internal or external to the control cabinet and intended for use by maintenance personnel, shall have ground-fault circuit interrupter (GFCI) protection for personnel. (NFPA 79, 2002 edition)

- The GFCI assembly needs to have a NEMA or IP rating

16.1.1 (6) Shall be suitable for the environment. Receptacles mounted external to the enclosure shall be provided with means to cover the receptacle when the plug is removed

OSHA has begun enforcing electrical safety using the NFPA 70e as the standard. The goal of the NFPA 70e is to keep personnel away from hazardous voltages. If the personnel is exposed to live voltages, they need to be "suited up" and protected while working on live voltage apparatus.

- OSHA (NFPA 70e) discourages exposure to hazardous voltages without proper protection. To reset a "tripped" GFCI, inside a panel requires maintenance personnel to be protected or the panel to be powered down (something not feasible)
- NFPA 79 changes all outlets on electrical panels to be GFCI protected in housings rated the same as the enclosure. NFPA 79 is the law in Kentucky and several other states.
- UL states that GFCI outlets need to be tested on a regular basis.
- NFPA 70e requirements - if the GFCI inside the panel has tripped, or needs to be tested, then personnel will need to be "suited up" to reset the GFCI outlet

DECISION TABLES

<u>Order Number</u>	<u>Voltage</u>	<u>Enclosure</u>
PGFU-120-K2	120 VAC	Black NEMA 4X
PGFU-120-K3	120 VAC	Gray NEMA 4

