

# Tech Bulletin

## GFCI Dual Duplex Box and Cord Unit

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The GFCI standard, UL 943, section 6.7.2.1c requires open neutral protection for a portable GFCI. A portable cord reel with GFCI receptacles becomes equivalent to a portable GFCI in use. The old model did not contain the open neutral protection, thus causing us to re-design our GFCI Cord Unit. There are also a number of other reasons for the re-design. There was a potential safety issue with the old GFCI Receptacle regarding the open neutral protection feature. The open neutral protection feature is only available in a separate GFCI Module. So, in order to incorporate the open neutral protection feature, we switched to two Device Duplex Box which gave us the additional room to meet wiring specifications. The updated design satisfies all UL requirements for GFCI's and otherwise.

The GFCI Duplex Box and Cord Unit now incorporates a PowerPort® Portable Outlet Box For Two Devices which contains a Circuit Guard® GFCI Module and receptacle. The Circuit Guard® GFCI Module is rated for up to 20 Amps and the receptacle can be ordered as 15 Amp or 20 Amp. The Circuit Guard® GFCI Module contains an open neutral protection feature that allows the GFCI Module to trip if a neutral wire is broken, thus reducing the risk of electrical shock. The open neutral protection is a nice feature to have because the GFCI Module will trip when a broken neutral wire is detected and will not reset until the wire is fixed.

Covering the receptacle in the GFCI Duplex Box is a Marine Device Lift Cover Plate. It contains a foam insert to form a seal between the electrical components inside the box and the lift cover plate. The Marine Device Lift Cover Plate also features corrosion resistance, high visibility yellow and stainless steel hardware. Covering the GFCI Module in the GFCI Duplex Box is a cover that is included in the package with the box. It features a foam insert as well to form a seal between the GFCI Module and the cover plate.



**New Dual Duplex Box**



**Old GFCI Dual Duplex Box**

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