

Solis Rapid Shutdown Device (RSD): DC and AC Connector Removal

The Solis Rapid Shutdown Device is housed inside a rugged NEMA 4X enclosure designed for rooftop environments. Typically, the RSD is mounted directly under a PV module, or within 5 feet of the PV array and attached to a PV module support rail member with corrosion-resistant nuts, bolts and washers. The Ginlong Solis Rapid Shutdown Devices (RSD's), offered in both single-channel and dual-channel configurations, meets the 2014 NEC 690.12 rapid shutdown requirements. The RSD operates by utilizing AC power to close normally-open relays in the positive and negative PV source circuit(s). When AC power is removed, the relays open and the PV source circuit(s) are shut down to less than 30 VDC and 250VA in less than 10 seconds.

The Rapid Shutdown Device (RSD) may come equipped with exterior-rated locking DC connectors. Ginlong Solis strives to provide our installers with the very best connectors, however, some installers may prefer another type of DC connector or to make a more permanent (soldered) connection. Ginlong Solis supports Ginlong installers and their best efforts to provide excellent field connections and workmanship. To this end, Ginlong Solis allows removal of factory-installed DC connectors in the field and this action will not affect the standard warranty on the RSD. Ginlong Solis recommends that installers leave a minimum of 4 inches (10cm) of PV wire after removal of any DC connector from the RSD.

The Rapid Shutdown Device (RSD) may come equipped with an exterior-rated, weathertight AC bulkhead connector installed on the AC control circuit cable. The Ginlong RSD shipping box will also include a mating connector for the AC bulkhead connector installed on the RSD AC control circuit cable. These connectors provide cable strain relief and a weathertight connection between the RSD AC control circuit conductors and the installer-provided cable that shall be landed at a 220-240VAC power source. Again, Ginlong Solis supports Ginlong installers and their best efforts to provide excellent field connections and workmanship. To this end, Ginlong Solis allows removal of the factory-installed AC bulkhead connector in the field and this action will not affect the standard warranty on the RSD. Ginlong Solis recommends that installers leave a minimum of 4 inches (10cm) of AC control circuit cable after removal of the AC bulkhead connector from the RSD.