



### • About Rapid Shutdown

#### 1.1 Intended Use of the Rapid Shutdown

The Rapid Shutdown has been especially developed as a safety device for direct current (DC) photovoltaic installations. The DC disconnect switch is used to disconnect the connected strings of the installation in case of an emergency situation.

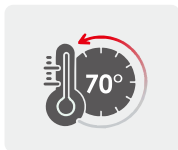
Such an emergency situation could be in case of fire.

#### 1.2 Location of the Rapid Shutdown

The Rapid Shutdown needs to be placed as close to the solar panels as possible. Due to its enclosure, the switch is protected against external influences like dust and moisture. The whole set-up is conformed to IP66 which makes it suitable for outdoor usage when needed.

### • Shutdown Mode

#### Automatic Shutdown



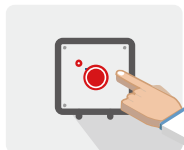
Automatically shutdown the DC power of panels when detecting temperature of the area is higher than 70°C.

#### AC Power Shutdown



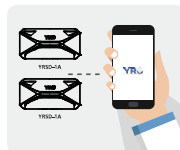
Firefighters or homeowners can manually turn off the AC power of the distribution box when in an emergency or it can automatic shutdown when the AC power has lose.

#### Manual Shutdown



In an emergency, it can be shut down manually through the Panel Level Rapid Shutdown Controller Box.

#### RS485 shutdown Optional



Maintenancers or homeowners can also remotely shutdown through RS485 communication (Optional)

### • Technical data

Technical Parameter	YRSD-1A to YRSD-10A	
<b>Main Parameters</b>		
String voltages (Vdc)	1000V	1500V
String current (A)	40A	26A
Number of strings	1 to 10	
Switch wiring	2/4	
Operating voltage	100Vac-270Vac	
Nominal voltage	230Vac	
Nominal current	30mA	
Start up (loading) current	average 100mA	
Switch on action current	max 300mA	
Feedback contact	24Vdc-300mA max	
Operating temperature range	-40°C-+70°C	
Max. operating temperature before automatic switch off	+70°C	
Storage temperature range	-40°C-+85°C	
Protection degree	IP66	
Protection level	Class II	
Certification	CE	
DC Switch disconnect according to	EN 60947-1&3	
Number of operations	10000	
Number of operations under load(PV1)	>1500	

