

# Easy to install and commission for Rapid Shutdown PV arrays and NEC 2017 compliance

## MPPT Disconnect RS

A Rapid Shutdown transmitter, arc fault detection, and PV disconnect for use with Conext MPPT 60 150 and MPPT 80 600 Charge Controllers



## Solution at a glance

The MPPT Disconnect RS is an accessory for the Conext™ MPPT 80 600 and MPPT 60 150 charge controllers. It provides a disconnect for the photovoltaic (PV) circuits, an integrated Rapid Shutdown transmitter, and arc fault detection for enhanced safety.

The MPPT Disconnect RS provides simplified NEC 2017 Compliance

- Integrated Rapid Shutdown transmitter using power line communication (PLC)
- Compatible with Tigo® TS4-F (Fire Safety)
- Arc fault detection certified to UL 1699B
- Compatible with Conext™ MPPT 80 600 and MPPT 60 150 charge controllers

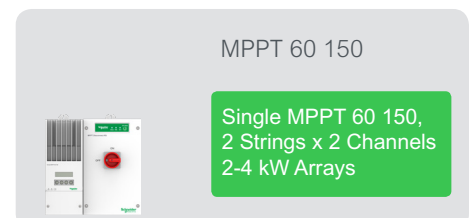
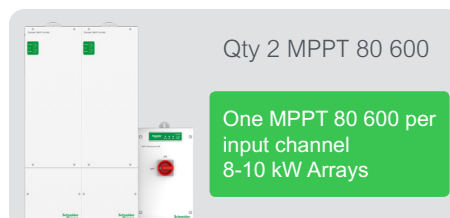
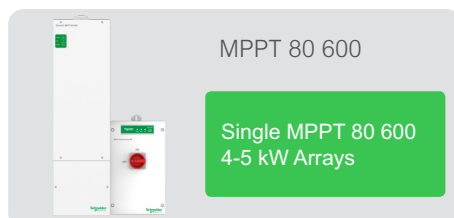
## Integrated PV Disconnect

- 2 leg disconnect, compliant with NEC 2017
- LOTO capability
- 2 input channels with up to 2 strings per channel

## Flexible Installation

- Multiple configurations with Conext™ MPPT80 600 and MPPT60 150 charge controllers
- Single Rapid Shutdown Initiator Switch can be used with multiple MPPT Disconnect RS for larger systems
- Side or bottom cable entry
- Mount on either side of the Conext™ MPPT80 600 or MPPT60 150 charge controllers

## Charge Controller Configurations with MPPT Disconnect RS



# Technical Specifications

## MPPT Disconnect RS

Device short name	MPPT Disconnect RS
<b>Electrical specifications</b>	
Max. PV array open circuit voltage	600 VDC
Max. array short-circuit current <sup>1</sup>	32 A (25.6 A @ STC) x 2 channels
Max. and min. PV input/output wire size	#6 AWG to #14 AWG (13.5 to 2.5 mm <sup>2</sup> )
Control power input	48 VDC nominal (22-60 VDC)
<b>General specifications</b>	
PV Disconnect	2 channel, 4 pole DC disconnect switch
Arc fault circuit protection <sup>2</sup>	Type 1
Rapid Shutdown	PLC transmitter included; Rapid Shutdown Initiator Switch ordered separately
Network communications	Xanbus
Enclosure type	Type 1, indoor rated
Product weight	4.5 kg (10 lb)
Product dimensions (H x W x D)	36.8 x 22 x 14.5 cm (14.48 x 8.66 x 5.7 in)
Shipping dimensions (H x W x D)	28.5 x 44.0 x 29.0 cm (11.22 x 17.32 x 11.41 in)
Ambient air temperature for operation	-20°C to +50°C (-4°F to 122°F)
Operating altitude	Sea level to 2000 m (6562 ft)
<b>Regulatory</b>	
Safety	UL1741, UL1741 CRD - PV Rapid Shutdown, UL1699B, CSA C22.2 No. 107.1-16, CSA C22.2 No. 292-18, CSA (LTR) No. AE-004-2015
EMC	FCC and Industry Canada (Class B)
<b>Rapid Shutdown Initiator Switch (Ordered separately)</b>	
Enclosure type	Type 4X, outdoor rated
Ambient air temperature for operation	-20°C to +50°C (-4°F to 122°F)

1. Refer to MPPT Charge Controller data sheet for total allowable short circuit current

2. With Xanbus communication to MPPT charge controller

## Compatible Product Part Numbers And Example Configurations

Products	Part Number	Qty 1 MPPT 80	Qty 2 MPPT 80	Qty 3 MPPT 80	Qty 4 MPPT 80	Qty 1 MPPT 60	Qty 2 MPPT 60	Qty 3 MPPT 60	Qty 4 MPPT 60
<b>Bill of Materials</b>									
MPPT 80 600	865-1032	1	2	3	4	-	-	-	-
MPPT 60 150	865-1030-1	-	-	-	-	1	2	3	4
MPPT Disconnect RS	865-1036	1	1	2	2	1	2	3	4
RS Initiator Switch	865-1039	1	1	1	1	1	1	1	1
PV Rapid Shutdown	Tigo TS4-F, TS4-A-F, TS4-A-2F, TS4-R-F (Fire Safety)								

## Example System Solution with MPPT Disconnect RS

