## hoymiles



# Rapid Shutdown Datasheet

HRSD-2C

#### Description

As part of Hoymiles Rapid Shutdown Solution for the PV system, HRSD-2C is connected with two modules. It meets NEC 2017, NEC 2020, UL 1741 and SunSpec Rapid Shutdown requirements, guaranteeing PV system safety.

The HRSD device enables proper operation of the PV system when it is installed and receives a "permission to operate" signal from the Hoymiles Transmitter. In an emergency, the PV system would enter module-level rapid shutdown mode by simply disconnecting the AC power of the Transmitter or using an external initiator.

#### **Features**

01	Module-level Rapid Shutdown Meets SunSpec RSD, NEC 2017&NEC 2020 690.12 requirements
02	<b>Increased Reliability</b> Uses Active Bypass to reduce heat generation in shade and other situations
03	Better Temperature Uniformity Uses graphene heat spreader to improve heat dissipation

04	Easy Installation Plug & play, no configuration required
05	<b>High Efficiency</b> <i>Lower power consumption and wider operating voltage range</i>
06	Reliable Communication Able to avoid crosstalk with special communication modulation technique

### **Technical Specifications**

Model	HRSD-2C	HRSD-2C-B			
Electrical Data					
Output voltage range	16-160 V	16-130 V			
Input voltage range	8-80 V	8-65 V			
Maximum current	15 A	20 A			
Maximum short circuit current	25 A				
Maximum system voltage	1000 V / 1100 V (1500 V optional)				
Communication type	SunSpec PLC				
Shutdown output voltage	1 V				
Power consumption	200 mW				
Mechanical Data					
Input connectors	MC4 / MC4 EVO2, optional				
Input cable length <sup>1</sup>	0.45 m (1.48 ft.) / 1.6 m (5.23 ft.), optional				
Output connectors	MC4 / MC4 EVO2, optional				
Output cable length <sup>2</sup>	2.7 m (+) / 0.1 m (-) 8.86 ft. (+) / 0.33 ft. (-)	2.9 m (+) / 0.1 m (-) 9.51 ft. (+) / 0.33 ft. (-)			
Dimensions	133 x 58 x 16 mm (5.24 x 2.28 x 0.63 inch)				
Environmental					
Operating temperature range	-40°C to +85°C (-40°F to +185°F)				
Outdoor rating	IP68 / NEMA6P				
Compliance					
Safety	UL1741, CSA C22.2 No. 330-17, IEC/EN 62109-1				
EMC	FCC Part15 Class B, ICES-003, IEC/EN 61000-6-1/-2/-3/-4				

\*1 The former matches PV module output cables of 1.35 m (4.43 ft.) at minimum, and the latter matches those of 0.2 m (0.66 ft.) at minimum. 2 Fits PV module in portrait installation. Contact Hoymiles if horizontal installation is needed.



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