



Rapid Shutdown Datasheet

HRSD-1C

Description

As part of Hoymiles rapid shutdown solution for PV system, HRSD-1C can be connected with one module. It meets NEC 2017, NEC 2020, UL 1741 and SunSpec Rapid Shutdown requirements, guaranteeing PV system safety.

When installed with and receiving a "permission to operate" signal from Hoymiles Transmitter, HRSD starts proper operation of PV system. In case of emergency, PV system would enter module-level rapid shutdown mode by simply disconnecting the AC power of Transmitter or using an external initiator.

Features

01 **Module-level rapid shutdown**
Meets NEC2017&NEC2020 690.12 requirements

02 **SunSpec Certified**
Meets SunSpec RSD requirements

03 **PLC communication**
Realize rapid shutdown with Transmitter

04 **Easy Installation**
Plug & play, no configuration required

05 **High Efficiency**
Lower power consumption and wider operating voltage range

06 **Lower Noise**
Much lower than arc noise. No risk of triggering AFCI

Technical Specifications

| | |
|-----------------------------|---|
| Model | HRSD-1C |
| Electrical | |
| Input Voltage Range | 8-80V |
| Maximum Current | 15A (20A or 25A optional) |
| Maximum System Voltage | 1000V (1500V optional) |
| Communication Type | SunSpec PLC |
| Shutdown Output Voltage | 1V |
| Power Consumption | 200mW |
| Mechanical | |
| Input Connectors | MC4 (standard) |
| Input Cable Length | 0.15m |
| Output Connectors | MC4 (standard) |
| Output Cable Length | 1.2m ¹ |
| Dimensions | 113 x 54 x 16mm |
| 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: Fits PV module in landscape and portrait installation.

