



Transmitter Datasheet

- HT-G20-Kit-A1S2**
- HT-G20-Kit-B1S2**
- HT-G20-Kit-B2S2**
- HT-G20-Kit-C2S2**

Description

As part of Hoymiles Rapid Shutdown solution, the HT-G20-Kit series are designed to work with HRSD for rapid shutdown at the module level. The kit comprises one HT-G20 (available in single or dual Core), one single-phase power supply, and an outdoor enclosure.

When powered on, the HT-G20 uses PLC technology to continuously send a "permission to operate" signal to HRSD, enabling the PV system to start producing power.

In case of 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.*

** Refer to the user manual for details.*

Features

Module-level rapid shutdown with Hoymiles HRSD

Weatherproof outdoor enclosure

Achieves rapid shutdown through Transmitter power-off or external initiation

Complied with NEC 2017&NEC 2020 690.12 requirements

Advanced crosstalk prevention solution

Equipped with single-phase power supply



Technical Specifications

| Model | HT-G20-Kit-A1S2 | | | HT-G20-Kit-B1S2 | | | HT-G20-Kit-B2S2 | | | HT-G20-Kit-C2S2 | | |
|--|---|-------------------|----------------|-----------------|-------------------|----------------|-----------------|-------------------|----------------|-----------------|-------------------|----------------|
| Electrical | | | | | | | | | | | | |
| Transmitter input voltage | 12 V DC (+/-2%) | | | | | | | | | | | |
| Transmitter input current | 1 A | | | | | | | | | | | |
| PSU input voltage range | 85-277 V AC | | | | | | | | | | | |
| Communication | | | | | | | | | | | | |
| Communication type | PLC | | | | | | | | | | | |
| Max. cable length between inverter input (+) and input (-) | 800 m (2624.67 ft.) | | | | | | | | | | | |
| Core | | | | | | | | | | | | |
| Number of Core connected | 1 | | | 1 | | | 2 | | | 2 | | |
| Max. allowable current per Core | 75 A | | | 150 A | | | 150 A | | | 250 A | | |
| DC cable diameter | Φ 6 mm (0.24") | Φ 6.45 mm (0.25") | Φ 7 mm (0.28") | Φ 6 mm (0.24") | Φ 6.45 mm (0.25") | Φ 7 mm (0.28") | Φ 6 mm (0.24") | Φ 6.45 mm (0.25") | Φ 7 mm (0.28") | Φ 6 mm (0.24") | Φ 6.45 mm (0.25") | Φ 7 mm (0.28") |
| Max. number of strings per Core* | 5 | 4 | 3 | 15 | 12 | 10 | 15 | 12 | 10 | 20 | 18 | 16 |
| Max. number of HRSD-1Cs per Core** | 150 | 120 | 90 | 450 | 360 | 300 | 450 | 360 | 300 | 600 | 540 | 480 |
| Max. number of HRSD-2Cs per Core** | 75 | 60 | 45 | 225 | 180 | 150 | 225 | 180 | 150 | 300 | 270 | 240 |
| Mechanical | | | | | | | | | | | | |
| Dimensions | 198.5 × 298 × 179 mm (7.81" × 11.73" × 7.05") | | | | | | | | | | | |
| Mounting type | Wall-mounted | | | | | | | | | | | |
| Environmental | | | | | | | | | | | | |
| Operating temperature range | -40°C to +85°C (-40°F to +185°F) | | | | | | | | | | | |
| Outdoor rating | IP65 | | | | | | | | | | | |
| Compliance | | | | | | | | | | | | |
| Safety | UL3741, UL1741, CSA C22.2 No. 330-17 | | | | | | | | | | | |
| EMC | FCC Part 15B, ICES-003 | | | | | | | | | | | |

* The maximum number of strings per Core is determined by the DC cable current and diameter. The total cable current should not exceed the Core's maximum allowable current, and the total cable diameter should not exceed the Core's diameter.

** Max. number of HRSDs per Core = Max. number of strings per Core × number of PV modules per string (In the table we have assumed each string has 30 PV modules.)

