Transmitter Datasheet

HT-G20-Kit

Description

As part of Hoymiles Rapid Shutdown solution, the HT-G20-Kit is 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

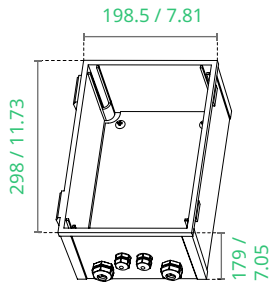
- Module-level rapid shutdown with Hoymiles HRSD
- Achieves rapid shutdown through Transmitter power-off or external initiation
- Advanced crosstalk prevention solution
- Weatherproof outdoor enclosure
- Complied with NEC 2017&NEC 2020 690.12 requirements
- Equipped with single-phase power supply

Technical Specifications

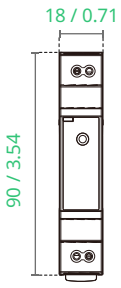
Model	HT-G20-Kit											
Electrical												
Transmitter input voltage	12 V DC (+/-2%)											
Transmitter input current	1 A											
PSU input voltage range	85-277 V AC											
Communication												
Communication type	PLC											
Max. cable length between inverter input (+) and 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 in)											
Mounting type	Wall-mounted											
Environmental												
Operating temperature range	-40°C to +85°C (-40°F to +185°F)											
Outdoor rating	IP65											
Compliance												
Safety	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.

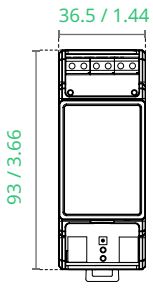
** Max. number of HRSDs per Core = Max. number of strings per Core × number of PV modules per string (In the table we have assumed each string has 30 PV modules.)



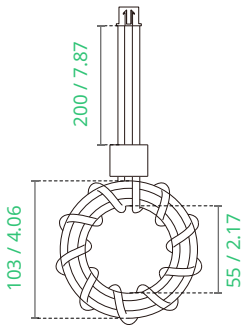
Unit : mm / inch



Power Supply (85-277 V)

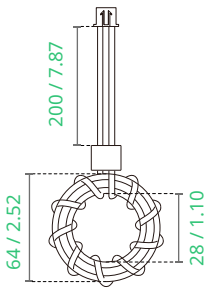


Transmitter

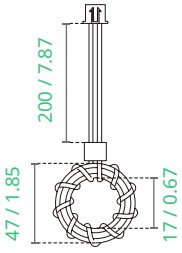


Core-250 A

*Non-final version



Core-150 A



Core-75 A