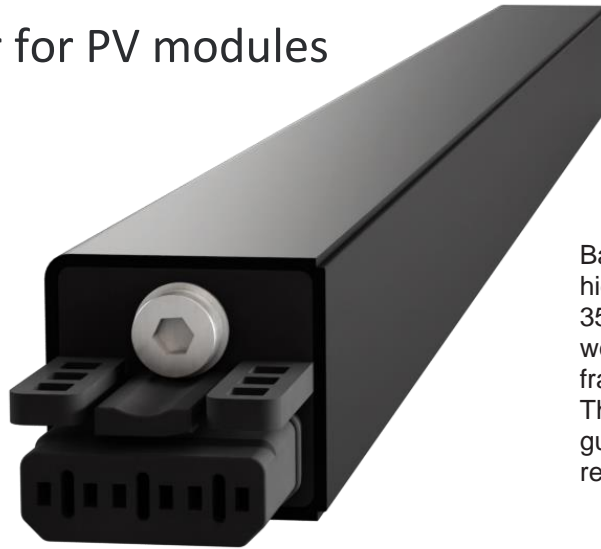


Power Stick INV-350

micro-inverter for PV modules



Based on Solarnative's proprietary high-frequency technology, the INV-350 is the smallest inverter in the world and can be integrated into the frame of PV modules. The unique thermal design guarantees superior lifetime and reliability.

Key features



Superior energy yield

Highest yields with shade-tolerant substring design
Unsurpassed low-light performance



Highest reliability

25 years limited warranty
Unique thermal design leads to minimized failure rates



Easy installation

Ultra-long string design for East-West configuration
Plug & Play over-the-air commissioning
No data cables anywhere
Auto-detection and location of missing connectors
Automatic roof mapping / smart layouting function



High-efficiency module design

No by-pass diodes required for cells strings up to 60 cells in series
Reverse-bias control eliminates hot cells and hot spots
Enabler for high-efficiency heterojunction and Perovskite tandem technology



Inherent safety

No high DC voltages during installation and operation (no risk of fire)
Self-limiting string design

Models

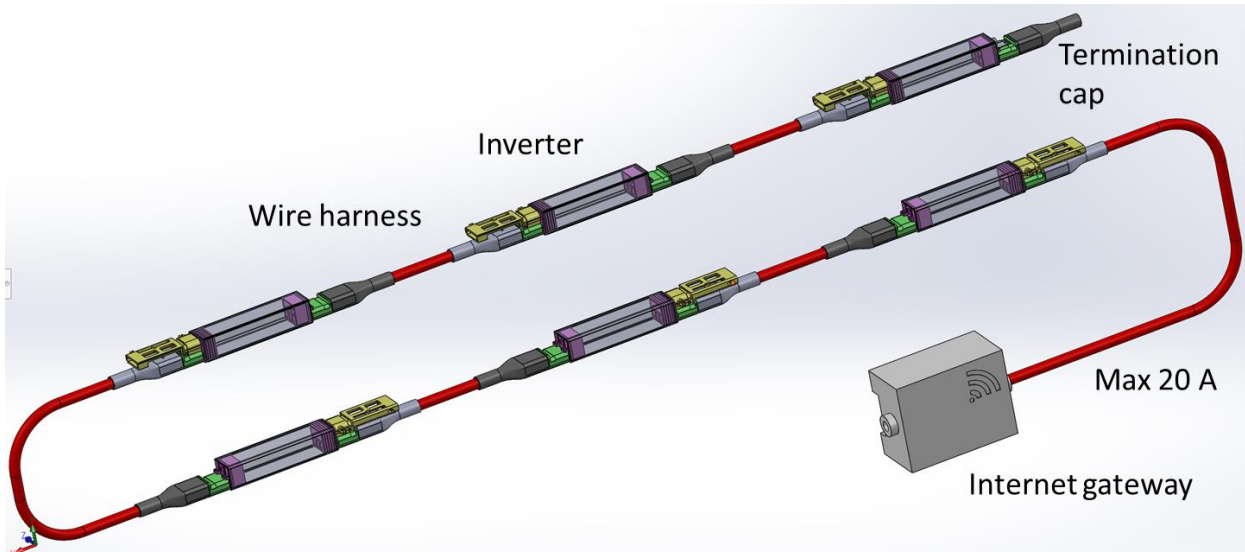
INV-350-a: Add-on version that is compatible with standard PV modules and can either be pre-assembled into the frame of the module by the module manufacturer or be mounted to the mounting structure by the installer.

INV-350-i: Module-integrated version for frame-integration of true AC modules.

Technical Data

Input (DC)	INV-350-a (add-on)	INV-350-i (integrated)
Recommended module power		330-440 Wp
DC connector	2 DC cable (2.5 mm ²) with Stäubli MC 4 connectors	DC connector without cables
Minimum open-circuit voltage at standard operating conditions (STC)		25 V
Maximum open-circuit voltage at STC		50 V
Current (DC)		< 20 A
Over-voltage class		II
Output (AC)	INV-350-a	INV-350-i
Continuous output power (at 240 V)		350 W
European efficiency		> 96 %
Nominal voltage	230 V @ 50 Hz / 240 V @ 60 Hz	
Current		Max 1.5 A
Max. Power factor		> 0.99
Active power factor control		Down to 0.9
Overvoltage Class		II
Nominal frequency		50-60 Hz
NS-protection	Integrated, no separate relay box required	
General Data	INV-350-a	INV-350-i
Dimensions without connectors (length x width x height)	350 mm x 23.9 mm x 22.3 mm (13.8 in x 0.9 in x 0.9 in)	
Total length	385 mm (15.2 in)	395 mm (15.6 in)
Recommended module frame height		32-35 mm
Weight	250 g (8.8 oz)	280 g (9.9 oz)
Cooling	Natural convection	
Ingress protection	IP55	
Noise emission	< 40 dB	
Compliance (pending)	INV-350-a	INV-350-i
Certification (pending)	UL1741:2021, UL 1741 SA, IEEE1547:2018, IEC/UL 62109-1, IEC 62109-2, IEC 62109-3, CA Rule 21, (EU) 2016/631, VDE-AR-N 4105, NEC 2020 section 690.12 Rapid Shutdown	

Smart Energy Home system architecture



System	INV-350a	INV-350i
Maximum current per string		20 A
Number of inverters per string	Unlimited. Self-regulated system	
Recommended maximum number of inverters per string)	South: 13 @ 400 Wp modules -15 @ 350 Wp modules / East-West: 28 @ 400 Wp modules -36 @ 350 Wp modules	
System components	Inverter, wire harness, termination cap, Internet gateway (optional: energy meter)	
Connectivity	Powerline communication from inverters to smart gateway, LTE to cloud server and LoRa to other system devices	