

# Next-Generation Distribution Line Voltage Regulators

Increase the hosting capacity of your distribution lines with our reactive power inverter solution.

- › Increase residential solar PV and electric vehicle penetration while preserving voltage stability within ANSI C84.1 boundaries.
- › Reactive power injection, both **leading** and **lagging** to increase or decrease local voltage.
- › Consumes almost no real power, functional day and night.
- › Power factor correction and harmonic filtering.
- › Installed on electric pole at the secondary of the distribution transformer.
- › Cellular 3G communication with remote server. Allows to visualize grid signal samples remotely.



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## INTER OPERABILITY



- Advanced DER management functions (Volt/VAR optimization)
- Handles California Rule 21, IEEE3547 and UL1741SA standards

## WIRELESS 3G COMMUNICATION



- Embedded wireless and 3G option for remote monitoring
- API for custom DER directives, signal monitoring & recording

## LONG-TERM RELIABILITY



- Natural convection heat dissipation, no fan
- True inverter solution with high-quality film capacitors.

## EASY INSTALLATION



- Electric pole installation Nema 4X
- 50% weight and footprint reduction over current competition



# Modules Specifications

## General specifications

Product name	Voltage Regulator
Product number	INV02
Continuous output 25°C	5 kVA
Maximum input / output current	21 amps RMS
Nominal Voltage	240 Vac
Max efficiency	97%
Total harmonic distortion	< 3%
Topology	Single-phase inverter
AC input/output frequency range	56 Hz - 63 Hz
Power factor	0.025 to 1 lagging or leading

## Physical specifications

Temperature range (operating)	-13°F to 122°F / -40°C to 50°C
Weight (unit)	20 lbs (9 kg)
Dimensions (W x H x D)	13" x 32" x 4"
Mounting	Electric pole
Degree of protection	NEMA 4X
Chassis type / cooling	Natural convection
Max operating altitude	6560 ft (2000 m)

## Communications and smart features

Smart features	California Rule 21 requirements phase I & II, IEEE1547, UL1741SA
System monitoring and communications	3G cellular communication
Field upgradable firmware	Yes

## Certifications (2020)

Compliance	UL 1741SA, IEEE1547, CSA-C22.2N. 107.1-01, UL1998 UL1699B, FCC Part 15
RoHS compliant	Yes
Warranty	5 years

