

Unparalleled Performance

With their advanced system intelligence, next-generation Edge™ MPPT technology, and industrial-grade engineering, PowerGate Plus inverters maximize system uptime and power production, even in cloudy conditions.

Power Efficiency

Power Level	Input Voltage ¹	Efficiency ²
10%	37.5 kW	92.6%
20%	75 kW	95.4%
30%	112.5 kW	96.0%
50%	187.5 kW	96.3%
75%	281.25 kW	96.2%
100%	375 kW	95.8%

¹ 310V minimum ² 480V model

Edge MPPT

Provides rapid and accurate control that boosts PV plant kilowatt yield

Provides a wide range of operation across all photovoltaic cell technologies

Printed Circuit Board Durability

Wide thermal operating range: -40° C (-40° F) to 85° C (185° F)

Conformal coated to withstand extreme humidity and air-pollution levels

Proven Reliability

Rugged and reliable, PowerGate Plus PV inverters are engineered from the ground up to meet the demands of large-scale installations.

Low Maintenance

Modular components make service efficient

Dual cooling fans

Safety

Seismic Zone 4 compliant

Built-in DC and AC disconnect switches

Integrated DC two-pole disconnect switch isolates the inverter (with the exception of the GFDI circuit) from the photovoltaic power system to allow inspection and maintenance

Built-in isolation transformer

Protective cover over exposed power connections



PowerGate Plus 375 kW Specifications

UL/CSA

Input Parameters

Maximum Array Input Voltage	600V DC (UL)	•
Input Voltage Range (MPPT; Full Power)	320–600V DC	•
Maximum Input Current	1,227A DC	•

Output Parameters

Output Voltage Range (L-L)	422–528V AC	•
Nominal Output Voltage	480V AC	•
Output Frequency Range	59.5–60.5 Hz	•
AC Voltage Range Set Points	-12%/+10%	•
Nominal Output Frequency	60 Hz	•
Number of Phases	3	•
Maximum Output Current per Phase	451A	•
Maximum Overcurrent Protection per Phase	541A	•
CEC-Weighted Efficiency	95.5%	•
Maximum Continuous Output Power	375 kW (375 kVA)	•
Tare Losses	-123.5 W	•
Power Factor at Full Load	>0.99	•
Harmonic Distortion	<3% THD	•

Temperature

Operating Ambient Temperature Range (Full Power)	-20° C to +50° C	•
Storage Temperature Range	-30° C to +70° C	•
Cooling	Forced Air	•

Noise

Noise Level	<65 dB(A)	•
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Combiner

Number of Inputs and Fuse Rating	15 (160A DC) (Opt)	○
	24 (100A DC) (Opt)	○

• Standard ○ Optional



Output Options

PowerGate Plus 375 kW Models

North America 480V AC Output

Streamlined Design

With all components encased in a single, space-saving enclosure, PowerGate Plus PV inverters are easy to install, operate, and maintain.

Single Cabinet with Small Footprint

No clearance required for sides and back

Convenient access to all components

Large in-floor cable glands make access to DC and AC cables easy

Rugged Construction

Engineered for outdoor environments

Output Transformer

Provides galvanic isolation

Matches the output voltage of the PV inverter to the grid

PowerGate Plus 375 kW Specifications

UL/CSA

Transformer

Integrated External Transformer

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Low Voltage Tap Line¹

20%

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Inverter and Integrated External Transformer Cabinets

Enclosure Rating (Outdoor)

NEMA 3R

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Enclosure Finish (14-Gauge, Powder-Coated Steel)

RAL-7032

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Base and Door Finish (16-Gauge, Powder-Coated Steel)

RAL-7032

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Cabinet Dimensions (Height x Width x Depth)

Inverter

89.18" x 106.33" x 39.59"

Transformer

77" x 49" x 30.5"

Cabinet Weight

Inverter

3,300 lbs.

Transformer

2,500 lbs.

Testing and Certification

UL1741, CSA 107.1-01, IEEE 1547, IEEE C62.41.2

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Zone 4 Seismic Rating

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Warranty

Five Years

•

Extended Warranty (10, 15, or 20 years) (Optional)

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Extended Service Agreement (Optional)

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Intelligent Monitoring

Satcon PV View® Plus (Optional)

◦

Satcon PV Zone (Optional)

◦

Third-Party Compatibility

◦

- Standard
- Optional

¹ The 20% boost tap on the isolation transformer increases the AC voltage output range for applications where the solar array DC operating voltage is at or near the lower end of the DC input range. This boost allows for continued inverter operation at lower DC voltage input levels.

Note: Specifications are subject to change.

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