PowerGate Plus 375 kW UL

PVS-375-UL

Satcon PowerGate Plus PV inverters are the world's most widely deployed solutions, powering many of the largest commercial and utility-scale solar installations.

Advanced 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.

Utility-Ready Features

- Open communication protocol, compatible with virtually any third-party monitoring system and easily integrated into SCADA systems allowing fast communications
- Remote control of real and reactive power
- Low-voltage ride through
- Power factor control
- Simplified grid interconnection

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

 Conformal coated to withstand extreme humidity and air-pollution levels



Profitable PV Power

The Satcon[®] PowerGate[®] Plus 375 kW PV inverters have a significant impact on the profitability dynamic of large-scale solar PV systems. With its system intelligence, next-generation EDGE[®] MPPT technology and industrial-grade engineering, the PowerGate Plus 375 kW inverters maximize system uptime and power production, even in the harshest environments.

Advanced, Rugged, and Reliable

Engineered from the ground up to meet the demands of large-scale installations, Satcon PV inverters feature an outdoor-rated enclosure, advanced monitoring and control capabilities and EDGE, Satcon's next-generation MPPT solution.

Proven Performance

The proven leader in solar PV inverter solutions for commercial installations, Satcon sets the standards for efficient large-scale power conversion.

Increased PV Plant Yield

At the heart of PowerGate Plus is EDGE, Satcon's next-generation power optimization solution. With rapid and accurate MPPT control, EDGE increases PV plant kWh yield by extending the production window of arrays, enabling them to operate at optimal voltage and current levels for longer periods of time—even in varied sun conditions. To maximize efficiency, EDGE improves the performance of all PV technologies, including fixed and tracking solar arrays, enabling you to get the most from your investment.



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Streamlined Design

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

Rugged Construction

- Engineered for outdoor environments
- Wide thermal operating range: from -4° F to +122° F (-20° C to +50° C) without derating
- Solar shield attached to exterior of enclosure dissipate solar radiation, reduce heat buildup
- Redundant cooling fans
- Single cabinet with small footprint

Easy Maintenance

- Modular components make service efficient
- Convenient access to all components
- Customizable large in-floor cable gland plates make installation of DC and AC cables easy
- Integrated DC two-pole disconnect switch isolates the inverter, with the exception of the GFDI (Ground Fault Detection and Interruption) circuit, from the photovoltaic power system to allow inspection and maintenance

Proven Reliability

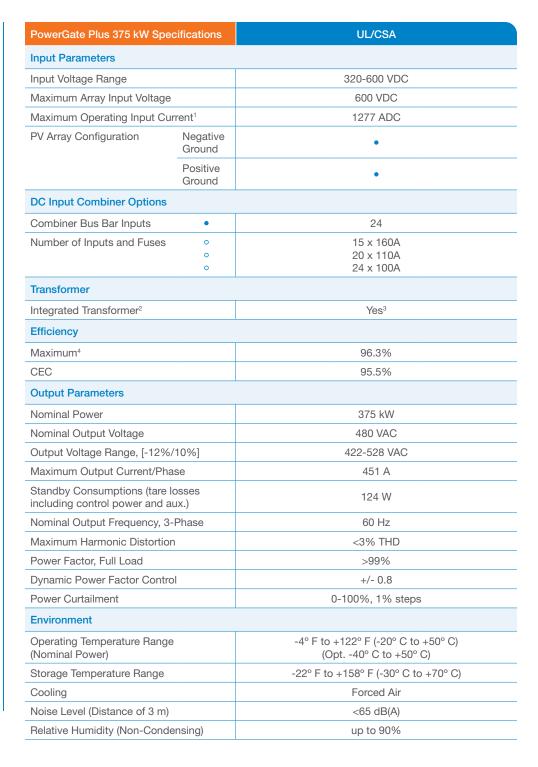
Rugged and reliable, PowerGate Plus PV inverters are engineered from the ground up to meet the demands of large-scale installations.

Safety

- UBC seismic Zone 4 compliant
- Built-in DC and AC disconnect switches
- Protective covers over exposed power connections

Output Transformer

- Provides galvanic isolation
- Matches the output voltage of the PV inverter to the grid





PowerGate Plus 375 kW Specifications	UL/CSA		
Enclosure			
Dimensions (H x W x D)	89 x 166 x 40 in. (226 x 422 x 102 cm)		
Weight⁵	5,811 lbs. (2641 kg)		
Finish	RAL 7032		
Protection Rating	NEMA 3R/IP44		
Warranty and Services			
Five Year Warranty	•		
Extended Warranty (1 and 5 year increments)	0		
Preventative Maintenance Agreement	0		
Uptime Guarantee ⁶	0		
Design Services	0		
APEX Project Management	0		
Communication Interface			
Modbus RS485	•		
Modbus TCP/IP	0		
Monitoring			
PV View Plus	0		
PV Zone	0		
Third-Party Compatibility	•		
Regulations and Standards Conformity			
UL1741, CSA 107.1, IEEE 1547, IEEE C62.41.2, IEEE C62.45, IEEE C37.90.1, IEEE C37.90.2	•		
UBC Zone 4 Seismic Rating	•		

Standard / Standard Option

Optional

¹ Calculated at nominal power and minimum DC voltage.

- ² 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.
- ³ Inverter and transformer are connected via a 12" throat. See product manual for details.

⁴ Calculated with auxiliary power.

 $^{\scriptscriptstyle 5}$ Dependent on options selected.

⁶ Requires Preventative Maintenance Agreement.

NOTE: All specifications are subject to change.

Output Options		Power Efficiency	
PowerGate Plus 375 kW		Power Level	Efficiency*
UL/CSA	480 VAC Output	10%	92.6%
		20%	95.4%
		30%	96.0%
		50%	96.3%
		75%	96.2%
		100%	95.8%

* 480V model

Energy Equity Protection (EEP)

Satcon provides a wide range of optional value-added services to protect your investment across the entire lifecycle of your project.

Design Services

Satcon's Design Services organization can guide you through all phases of project development using our broad experience and engineering skills.

APEX Project Management

Satcon APEX[™] Project Management ensure that your project comes in on time and on budget.

- Project planning
- Logistics
- Project supervision
- Mitigating risk, maximizing ROI

Warranty and Services

- Help desk
- Training programs
- Support services
- Extended warranty
- Preventative maintenance plans
- 99% Uptime Guarantee

PowerGate Plus Options

- Satcon Smart Subcombiners: Intelligent string monitoring
- Fused input combiners
- Satcon communication card: CCM Gateway
- Weather station
- PV View Plus monitoring system
- PV Zone

www.Satcon.com

Please visit Satcon's Resource Library for additional tools and product information, including:

- Satcon's product configurator
- Satcon's string sizing calculator
- Training and support resources:
 - On-demand video training
 - Articles, white papers and case studies

