

### Unparalleled Performance

Satcon enables you to closely match array capacities to achieve maximum energy throughput.



#### Edge™ MPPT

Features a proprietary maximum power point tracking (MPPT) system

Provides rapid and accurate control

Improves performance by up to 20%, even in challenging climate conditions

Boosts overall PV plant kilowatt yield

Provides a wide range of operation across all photovoltaic cell technologies, including thin film, monocrystalline, and polycrystalline PV panels

#### Power Efficiency

Full array nameplate power rating maintained throughout the entire MPPT DC voltage range

Superior dynamic performance in cloudy conditions

#### 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 250 kW Commercial Solar PV Inverter



#### PowerGate Plus 250 kW Specifications

##### Input Parameters

		UL/CSA	CE
Maximum Array Input Voltage	600V DC (UL)	●	
	900V DC (CE)	○	●
Input Voltage Range (MPPT; Full Power)	320–600V DC	●	
	333–600V DC <sup>1</sup>	●	
	420–850V DC	○	●
Maximum Input Current	814A DC	●	
	782A DC	●	
	620A DC	○	●

##### Output Parameters

Output Voltage Range (L-L)	208V AC	183–229V AC	●	
	208V AC <sup>2</sup>	183–229V AC	●	
	240V AC	211–264V AC	●	
	265V AC <sup>2</sup>	233–292V AC	○	●
	400V AC	352–440V AC		●
	480V AC	422–528V AC	●	
Nominal Output Voltage	208V AC		●	
	240V AC		●	
	265V AC		○	●
	400V AC			●
	480V AC		●	
Output Frequency Range	59.5–60.5 Hz		●	
	49.5–50.5 Hz			●
AC Voltage Range Set Points	-12%/+10%		●	●
Nominal Output Frequency	60 Hz		●	
	50 Hz			●
Number of Phases	3		●	●
Maximum Output Current per Phase	208V AC	694A	●	
	208V AC <sup>2</sup>	694A	●	
	240V AC	601A	●	
	265V AC <sup>2</sup>	545A	○	●

● Standard ○ Optional



### Output Options

#### PowerGate Plus 250 kW

UL/CSA	208V AC Output
	240V AC Output
	480V AC Output
CE	265V AC Output
	400V 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

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PowerGate Plus 250 kW Specifications		UL/CSA	CE
	400V AC 361A		•
	480V AC 301A	•	
Maximum Overcurrent Protection per Phase	208V AC 833A	•	
	208V AC <sup>2</sup> 833A	•	
	240V AC 722A	•	
	265V AC <sup>2</sup> 654A	○	•
	400V AC 433A		•
	480V AC 361A	•	
CEC-Weighted Efficiency	96%	•	
	97%		•
Maximum Continuous Output Power	250 kW (250 kVA)	•	•
Power Factor at Full Load	>0.99	•	•
Harmonic Distortion	<3% THD	•	•
<b>Temperature</b>			
Operating Ambient Temperature Range (Full Power)	-20° C to +50° C	•	•
Storage Temperature Range	-30° C to +70° C	•	•
Cooling	Forced Air	•	•
<b>Noise</b>			
Noise Level	<65 dB(A)	•	•
<b>Combiner</b>			
Number of Inputs and Fuse Rating	10 (160A DC) (Opt)	○	○
	15 (100A DC) (Opt)	○	○
<b>Inverter Cabinet</b>			
Enclosure Rating (Outdoor)	NEMA 3R, IP44	•	•
Enclosure Finish (14-Gauge, Powder-Coated Steel)	RAL-7032	•	•
Base and Door Finish (16-Gauge, Powder-Coated Steel)	RAL-7032	•	•
Inverter Cabinet Dimensions (Height x Width x Depth)	Inverter	92.6" x 117.7" x 43.3" (235.2 cm x 298.96 cm x 109.98 cm)	
Inverter Cabinet Weight	Inverter	4,500 lbs.	2,041 kg
<b>Transformer</b>			
Integrated Internal Transformer		•	•
Low Voltage Tap Line <sup>3</sup>	20%	•	•
<b>Testing and Certification</b>			
UL1741, CSA 107.1-01, IEEE 1547, IEEE C62.41.2		•	
CE Certification			•
Zone 4 Seismic Rating		•	•
<b>Warranty</b>			
Five Years		•	•
Extended Warranty (10, 15, or 20 years) (Optional)		○	○
Extended Service Agreement (Optional)		○	○
<b>Intelligent Monitoring</b>			
Satcon PV View® Plus (Optional)		○	○
Satcon PV Zone (Optional)		○	○
Third-Party Compatibility		○	○

- Standard
- Optional

<sup>1</sup> 208V AC output option with external transformer; <sup>2</sup> External transformer; <sup>3</sup> 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.**