

### 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

Protective cover over exposed power connections

## PowerGate® Plus 1 MW Commercial Solar PV Inverter



PowerGate Plus 1 MW Specifications		UL/CSA	CE
<b>Input Parameters</b>			
Maximum Array Input Voltage	900V DC (CE)	•	•
Input Voltage Range (MPPT; Full Power)	420–850V DC	•	•
Maximum Input Current	2,397A DC	•	•
<b>Output Parameters</b>			
Nominal Output Voltage to Transformer	265V 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	2,178A	•	•
Maximum Overcurrent Protection per Phase	2,614A	•	•
CEC-Weighted Efficiency	97%	•	•
Maximum Continuous Output Power	1000 kW (1000 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)	•	•

• Standard • Optional



**PowerGate Plus 1 MW**

UL/CSA 265V AC Output

CE 265V AC Output

External transformer required.

**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**

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 (Optional)**

Provides galvanic isolation

Uses medium voltage output to accommodate long-distance power feeds to designated loads or substations

PowerGate Plus 1 MW Specifications		UL/CSA	CE
<b>Combiner</b>			
Number of Inputs and Fuse Rating	40 (160A DC) (Opt.)	○	○
	60 (100A DC) (Opt.)	○	○
<b>Transformer</b>			
External Transformer		○	○
<b>Inverter and Integrated External Transformer Cabinets</b>			
Enclosure Rating (Outdoor)	NEMA 3R, IP44	●	●
Enclosure Finish (16-Gauge, Powder-Coated Steel)	RAL-7032	●	●
Base and Door Finish (14-Gauge, Powder-Coated Steel)	RAL-7032	●	●
Cabinet Dimensions (Height x Width x Depth)	Inverter	107" x 148" x 84" (272 cm x 376 cm x 213 cm)	
Cabinet Weight	Inverter	12,000 lbs.	5,443 kg
<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
- Note: Specifications are subject to change.

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