

### 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

### 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

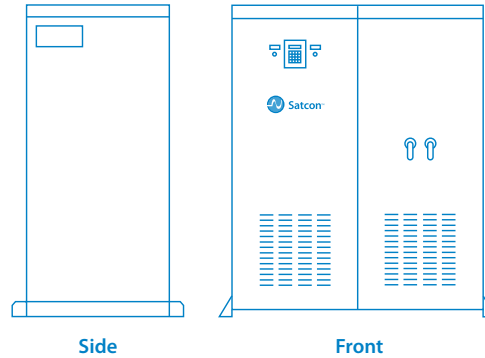
#### Output Transformer

Provides galvanic isolation

Matches the output voltage of the PV inverter to the grid

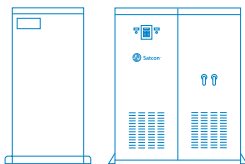
Includes high-speed anti-islanding algorithm

## PowerGate® Plus 100 kW Commercial Solar PV Inverter



PowerGate Plus 100 kW Specifications		N. America	European Union	
<b>Input Parameters</b>				
Maximum Array Input Voltage	600V DC (UL)	o		
	900V DC (CE)		o	
Input Voltage Range (MPPT; Full Power)	315–600V DC	o		
	430–850V DC		o	
Low Voltage Tap Line <sup>1</sup>	20%	o	o	
Maximum Input Current	331A DC	o	o	
<b>Output Parameters</b>				
Output Voltage Range (L-L)	208V AC	183–229V AC	o	
	240V AC	211–264V AC	o	
	400V AC	352–440V AC		o
	480V AC	422–528V AC	o	
Nominal Output Voltage	208V AC	o		
	240V AC	o		
	400V AC		o	
	480V AC	o		
Output Frequency Range	59.5–60.5 Hz	o		
	49.5–50.5 Hz		o	
AC Voltage Range Set Points	+/- 10%	o	o	
Nominal Output Frequency	60 Hz	o		
	50 Hz		o	
Number of Phases	3	o	o	
Maximum Output Current per Phase	208V AC	278A	o	
	240V AC	241A	o	
	400V AC	145A		o
	480V AC	121A	o	
Maximum Overcurrent Protection per Phase	208V AC	334A	o	
	240V AC	289A	o	
	400V AC	174A		o
	480V AC	145A	o	
CEC-Weighted Efficiency	96%	o	o	
Maximum Continuous Output Power	100 kW (100 kVA)	o	o	

o Standard o Optional



**PowerGate Plus 100 kW**

**Models**

North America	208V AC Output
	240V AC Output
	480V AC Output
European Union	480V AC Output

**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 100 kW Specifications		N. America	European Union
Tare Losses	208V AC	-62.34 W	o
	240V AC	-61.57 W	o
	400V AC	-64.5W	o
	480V AC	-66.13 W	o
Power Factor at Full Load	>0.99	o	o
Harmonic Distortion	<3% THD	o	o
<b>Temperature</b>			
Operating Temperature Range (Full Power)	-20° C to +50° C	o	o
Storage Temperature Range	-30° C to +70° C	o	o
Cooling	Forced Air	o	o
<b>Noise</b>			
Noise Level	<65 dB(A)	o	o
	55 dB(A) (Opt.)	o	o
<b>Combiner</b>			
Number of Inputs and Fuse Rating	5 (110A DC) (Opt.)	o	o
	6 (100A DC) (Opt.)	o	o
<b>Inverter Cabinet</b>			
Enclosure Rating (Outdoor) (IEC Grade)	NEMA 3R	o	o
Enclosure Finish (16-Gauge, Powder-Coated Steel)	RAL-7032	o	o
Base and Door Finish (14-Gauge, Powder-Coated Steel)	RAL-7032	o	o
Cabinet Dimensions (Height x Width x Depth)	80" x 57" x 30.84" (203.2 cm x 144.78 cm x 78.33 cm)		
Cabinet Weight	2,350 lbs.	1,066 kg	
<b>Transformer</b>			
Integrated Internal Transformer		o	o
<b>Testing and Certification</b>			
UL 1741, CSA 107.1-01, IEEE 1547, IEEE C62.41.2		o	o
Zone 4 Seismic Rating		o	o
<b>Warranty</b>			
Five Years		o	o
Extended Warranty (10, 15, or 20 years) (Optional)		o	o
Extended Service Agreement (Optional)		o	o
<b>Intelligent Monitoring</b>			
Satcon PV View® Plus (Optional)		o	o
Satcon PV Zone (Optional)		o	o
Third-Party Compatibility		o	o

o Standard

o Optional

<sup>1</sup> Accommodates low solar array voltages by reducing minimum input voltage requirements by 20%.

Note: Specifications are subject to change

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