

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 150 kW Commercial Solar PV Inverter



PowerGate Plus 150 kW Specifications

CE

Input Parameters

Maximum Array Input Voltage 900V DC (CE) ●

Input Voltage Range (MPPT; Full Power) 420–850V DC ●

Output Parameters

Output Voltage Range (L-L) 352–440V AC ●

Nominal Output Voltage 400V AC ●

Output Frequency Range 49.5–50.5 Hz ●

AC Voltage Range Set Points -12%/+10% ●

Nominal Output Frequency 50 Hz ●

Number of Phases 3 ●

Maximum Output Current per Phase 217A ●

Maximum Overcurrent Protection per Phase 260A ●

Euro-Weighted Efficiency (Euroeta) 96% ●

Maximum Continuous Output Power 150kW (150kVA) ●

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) ●

Combiner

Number of Inputs and Fuse Rating 4x2 (160A DC) (Opt.) ○

6x2 (100A DC) (Opt.) ○

Inverter Cabinet

● Standard ○ Optional



Output Options

PowerGate Plus 150 kW

CE 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

PowerGate Plus 150 kW Specifications

PowerGate Plus 150 kW Specifications		CE
Enclosure Rating (Outdoor) (IEC Grade)	IP44	•
Enclosure Finish (14-Gauge, Powder-Coated Steel)	RAL-7032	•
Base and Door Finish (16-Gauge, Powder-Coated Steel)	RAL-7032	•
Cabinet Dimensions (Height x Width x Depth)		2,032 mm x 1,905 mm x 787 mm
Cabinet Weight		1,350 kg
Transformer		
Integrated Internal Transformer		•
Low Voltage Tap Line ¹	20%	•
Testing and Certification		
CE Mark Compliance		•
EN61000-6-2, EN61000-6-4, EN50178		•
Warranty		
Five Years		•
Extended Warranty (10, 15, or 20 years) (Optional)		○
Extended Service Agreement (Optional)		○
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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