

Streamlined Design

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

Single Cabinet¹ 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
- Transformer built in; standalone transformer available as an option

Quiet Operation

65 dB(A) standard



PowerGate Plus Solar PV Inverters

Commercial and Utility Scale

The world's largest solar power installations depend on Satcon PowerGate Plus PV inverters to provide efficient and stable power—even in the harshest climates.

Broad Range of Power Ratings

With wide power ratings—ranging from 30 kW to 680 kW (UL, CE, CQC, PEA & Korean standard certified)—Satcon offers the widest range of solar PV central inverter solutions in the industry.

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.

History of Innovation

The proven leader in solar PV inverter solutions for commercial installations, Satcon sets the standards for efficient large-scale power conversion. From the introduction of the first single-cabinet PV inverter, to the first high-efficiency power conditioning system for commercial PV inverters—Satcon continues to lead the way.

Specifications



Specifications

PowerGate Series

Central Inverters



| Parameters | 30KW | 50KW | 100KW | 135KW | 250KW | 375KW |
|----------------------------------|-------------|-------------|-------------|-------------|-------------|------------|
| DC Input Voltage Range (V) | 305-600 | 305-600 | 315-600 | 310-600 | 320-600 | 320-600 |
| Maximum Array Input Voltage (V) | 600 | 600 | 600 | 600 | 600 | 600 |
| PV Array Configuration | Neg | Neg | Neg | Neg/Pos | Neg/Pos | Neg/Pos |
| Nominal AC Output Frequency (Hz) | 60 | 60 | 60 | Yes | Yes | Yes (Ext) |
| Integrated Transformer | Yes | Yes | Yes | 60 | 60 | 60 |
| Nominal AC Output Voltage (V) | 208/240/480 | 208/240/480 | 208/240/480 | 208/240/480 | 208/240/480 | 480 |
| Power Factor, Full Load | >99% | >99% | >99% | >99% | >99% | >99% |
| Dynamic Power Factor Control | +/-0.8 | +/-0.8 | +/-0.8 | +/-0.8 | +/-0.8 | +/-0.8 |
| Maximum Harmonic Distortion (%) | 3 | 3 | 3 | 3 | 3 | 3 |
| Efficiency (%) | 95 (CEC) | 95.5 (CEC) | 96 (CEC) | 96 (CEC) | 96 (CEC) | 95.5 (CEC) |
| Tare Losses (W) | 65-76 | 75-94 | 62-66 | 63-64 | 100-120 | 124 |
| Cooling | Forced Air | Forced Air | Forced Air | Forced Air | Forced Air | Forced Air |
| Noise Level (3 meters) (dB(A)) | <65 | <65 | <65 | <65 | <65 | <65 |
| Operating Temperature Range (°C) | -20 - +50 | -20 - +50 | -20 - +50 | -20 - +50 | -20 - +50 | -20 - +50 |
| Storage Temperature Range (°C) | -30 - +70 | -30 - +70 | -30 - +70 | -30 - +70 | -30 - +70 | -30 - +70 |
| Protection Rating | NEMA 3R | NEMA 3R | NEMA 3R | NEMA 3R | NEMA 3R | NEMA 3R |
| Weight (kg) | 547 | 788 | 1068 | 1220 | 2409 | 1496 |
| Standard Warranty | 5 Year | 5 Year | 5 Year | 5 Year | 5 Year | 5 Year |
| Extended Warranty | Optional | Optional | Optional | Optional | Optional | Optional |
| Standards | UL | UL | UL | UL | UL | UL |

All the specifications are subject to change

Specifications

PowerGate Series

Central Inverters



| Parameters | 500KW | 500KW | 500KW | 625kW/680kW |
|----------------------------------|------------|------------|------------|-------------|
| DC Input Voltage Range (V) | 320-600 | 320-600 | 420-850 | 500/550-850 |
| Maximum Array Input Voltage (V) | 600 | 600 | 900 | 1000 |
| PV Array Configuration | Neg/Pos | Neg/Pos | Neg | Neg |
| Integrated Transformer | No | Yes (Ext) | No | No |
| Nominal AC Output Frequency (Hz) | 60 | 60 | 60 | 60 |
| Nominal AC Output Voltage (V) | 200 | 480 | 265 | 320/360 |
| Power Factor, Full Load | >99% | >99% | >99% | >99% |
| Dynamic Power Factor Control | +/-0.8 | +/-0.8 | +/-0.8 | +/-0.8 |
| Maximum Harmonic Distortion (%) | 3 | 3 | 3 | 3 |
| Efficiency (%) | 97 (CEC) | 96 (CEC) | 97 (CEC) | 97.5 (CEC) |
| Tare Losses (W) | 138 | 138 | 170 | 170 |
| Cooling | Forced Air | Forced Air | Forced Air | Forced Air |
| Noise Level (3 meters) (dB(A)) | <65 | <65 | <65 | <65 |
| Operating Temperature Range (°C) | -20 - +50 | -20 - +50 | -20 - +50 | -20 - +50 |
| Storage Temperature Range (°C) | -30 - +70 | -30 - +70 | -30 - +70 | -30 - +70 |
| Protection Rating | NEMA 3R | NEMA 3R | NEMA 1 | NEMA 1 |
| Weight (kg) | 2682 | 4614 | 2700 | 2700 |
| Standard Warranty | 5 Year | 5 Year | 5 Year | 5 Year |
| Extended Warranty | Optional | Optional | Optional | Optional |
| Standards | UL/Korean | UL | UL | UL |

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