

**PVS-135 (208 V)**

**PVS-135 (240 V)**

**PVS-135 (480 V)**

**Unparalleled Performance**

With their advanced system intelligence, next-generation Edge™ MPPT technology, and industrial-grade engineering, PowerGate® Plus inverters maximize system uptime and power production, even in cloudy conditions.

**Power Efficiency**

Power Level	Output Power <sup>1</sup>	Efficiency <sup>2</sup>
10%	13.5 kW	92.9%
20%	27 kW	95.8%
30%	40.5 kW	96.5%
50%	67.5 kW	96.7%
75%	101.25 kW	96.5%
100%	135 kW	96.2%

<sup>1</sup> 310V minimum    <sup>2</sup> 480V model

**Edge MPPT**

Provides rapid and accurate control that boosts PV plant kilowatt yield

Provides a wide range of operation across all photovoltaic cell technologies

**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

**Safety**

UBC 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 covers over exposed power connections

**PV Inverters | PowerGate Plus 135 kW**



**PowerGate Plus 135 kW Specifications**

**UL/CSA**

**Input Parameters**

Maximum Array Input Voltage	600 VDC		•
Input Voltage Range (MPPT; Full Power)	310–600 VDC	208 VAC	•
	320–600 VDC	240 VAC	•
	310–600 VDC	480 VAC	•
Maximum Input Current	454A DC	208 VAC	•
	440A DC	240 VAC	•
	454A DC	480 VAC	•

**Output Parameters**

Output Voltage Range (L-L)	183–229 VAC	208 VAC	•
	211–264 VAC	240 VAC	•
	422–528 VAC	480 VAC	•
Nominal Output Voltage	208 VAC		•
	240 VAC		•
	480 VAC		•
Output Frequency Range	59.3–60.5 Hz		•
AC Voltage Range (Standard)	-12%/+10%		•
Nominal Output Frequency	60 Hz		•
Number of Phases	3		•
Maximum Output Current per Phase	375A	208 VAC	•
	325A	240 VAC	•
	163A	480 VAC	•
CEC-Weighted Efficiency	96%		•
Maximum Continuous Output Power	135 kW (135 kVA)		•
Tare Losses	63.12 W	208 VAC	•
	63.7 W	240 VAC	•
	63.37 W	480 VAC	•
Power Factor at Full Load	>0.99		•
Harmonic Distortion	<3% THD		•

• Standard    ◦ Optional



## Output Options

### PowerGate Plus 135 kW

UL/CSA	Output
	208 VAC Output
	240 VAC Output
	480 VAC 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

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 135 kW Specifications		UL/CSA
<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	5 (160A DC)	○
	9 (100A DC)	○
<b>Inverter Cabinet</b>		
Enclosure Rating	NEMA 3R	•
Enclosure Finish (14-Gauge, Powder-Coated G90 Steel)	RAL-7032	•
Cabinet Dimensions (Height x Width x Depth)		80" x 65" x 30.84"
Cabinet Weight		2,684 lbs.
<b>Transformer</b>		
Integrated Internal Transformer		•
Low Tap Voltage <sup>1</sup>	20%	•
<b>Testing and Certification</b>		
UL1741, CSA 107.1-01, IEEE 1547, IEEE C62.41.2, IEEE C62.45, IEEE C37.90.1, IEEE C37.90.2		•
UBC Zone 4 Seismic Rating		•
<b>Warranty</b>		
Five Years		•
Extended Warranty (up to 10, 15, or 20 years)		○
Extended Service Agreement		○
<b>Intelligent Monitoring</b>		
Satcon PV View® Plus		○
Satcon PV Zone®		○
Third-Party Compatibility		•

- Standard
- Optional

<sup>1</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.

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