

- PVS-250 (MVT)
- PVS-250 (208 V)
- PVS-250 (240 V)
- PVS-250 (480 V)
- PVS-250 (600 V)
- PVS-250 (265 V) CE
- PVS-250 (400 V) CE

### 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%	25 kW	93.78%
20%	50 kW	96.08%
30%	75 kW	96.52%
50%	125 kW	96.65%
75%	187.5 kW	96.51%
100%	250 kW	96.02%

<sup>1</sup> 315V 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

## PV Inverters | PowerGate Plus 250 kW



### PowerGate Plus 250 kW Specifications

#### Input Parameters

		UL/CSA	CE	
Maximum Array Input Voltage	600 VDC	●		
	900 VDC		●	
	PV Array Configuration			
Positive Ground		○	○	
	Negative Ground	●	○	
	Floating		●	
Input Voltage Range (MPPT; Full Power)	320–600 VDC	208 VAC	●	
		240 VAC	●	
		480 VAC	●	
	333–600 VDC	600 VAC	●	
		208 VAC <sup>1</sup>	●	
		420–850 VDC	265 VAC <sup>1</sup>	
400 VAC		●		
Maximum Input Current	814 A	208 VAC	●	
		240 VAC	●	
		480 VAC	●	
	774 A	600 VAC	●	
		208 VAC <sup>1</sup>	●	
		620 A	265 VAC <sup>1</sup>	
400 VAC		●		

● Standard    ○ Optional



### 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

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

PowerGate Plus 250 kW Specifications		UL/CSA	CE	
<b>Output Parameters</b>				
Output Voltage Range (L-L)	183–229 VAC	208 VAC <sup>1</sup>	•	
		208 VAC	•	
	211–264 VAC	240 VAC	•	
	233–292 VAC	265 VAC	•	
	352–440 VAC	400 VAC	•	
	422–528 VAC	480 VAC	•	
	528–660 VAC	600 VAC	•	
Nominal Output Voltage	208 VAC	•		
	240 VAC	•		
	265 VAC		•	
	400 VAC		•	
	480 VAC	•		
	600 VAC	•		
Output Frequencies	59.3–60.5 Hz	•		
	49.3–50.5 Hz		•	
AC Voltage Range (Standard)	-12%/+10%	•	•	
Nominal Output Frequency	60 Hz	•		
	50 Hz		•	
Number of Phases	3	•	•	
Maximum Output Current per Phase	694A	208 VAC <sup>1</sup>	•	
	694A	208 VAC	•	
	601A	240 VAC	•	
	545A	265 VAC <sup>1</sup>		•
	361A	400 VAC		•
	301A	480 VAC	•	
	241 A	600 VAC	•	
CEC-Weighted Efficiency	96%	208 VAC	•	
	96%	240 VAC	•	
	96%	480 VAC	•	
	97%	208 VAC <sup>1</sup>	•	
	96%	400 VAC		•
	97%	265 VAC <sup>1</sup>		•
	96%	600 VAC	•	
Maximum Continuous Output Power	250 kW (250 kVA)	•	•	
Tare Losses	119.7 W	480 VAC	•	
	100.0 W	240 VAC	•	
	105.1 W	208 VAC	•	
	120.0 W	400 VAC		•
	140.0 W	265 VAC		•
	126.5 W	600 VAC	•	
Power Factor at Full Load	>0.99	•	•	
Harmonic Distortion	<3% THD	•	•	

- Standard
- Optional

<sup>1</sup> 208 VAC and 265 VAC output options designed to be used with external transformer; <sup>2</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.**



### Output Options

#### PowerGate Plus 250 kW

UL/CSA	208 VAC Output
	240 VAC Output
	480 VAC Output
	600 VAC Output
CE	265 VAC Output
	400 VAC Output

PowerGate Plus 250 kW Specifications		UL/CSA	CE
<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 (2 fuses/input for floating)	15 (100 ADC)	○	
	10 (160 ADC)	○	
	12 (100 ADC)		○
	7 (160 ADC)		○
<b>Inverter Cabinet</b>			
Enclosure Rating	NEMA 3R	•	
	IP54		•
Enclosure Finish (14-Gauge, Powder-Coated G90 Steel)	RAL-7032	•	•
Stainless Steel Finish		○	○
Inverter Cabinet Dimensions (Height x Width x Depth)		89.2" x 115.1" x 38.2" (226.6 cm x 292.4 cm x 97.0 cm)	
Inverter Cabinet Weight (with Transformer/without Transformer)		4,500/2,930 lbs. (2,041/1,329 kg)	
<b>Transformer</b>			
Integrated Internal Transformer	208 VAC	•	
	240 VAC	•	
	400 VAC		•
	480 VAC	•	
	600 VAC	•	
Low Tap Voltage <sup>2</sup>		•	•

- Standard
- Optional

<sup>1</sup> 208 VAC and 265 VAC output options designed to be used with external transformer; <sup>2</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.**



### 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 250 kW Specifications	UL/CSA	CE
<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	•	
CE Certification (EN 50178, EN-61000-6-2, EN 61000-6-4)		•
UBC Zone 4 Seismic Rating	•	•
<b>Warranty</b>		
Five Years	•	•
Extended Warranty (up to 10, 15, or 20 years)	○	○
Extended Service Agreement	○	○
Uptime Guarantee	○	○
<b>Intelligent Monitoring</b>		
Satcon PV View® Plus	○	○
Satcon PV Zone®	○	○
Third-Party Compatibility	•	•

- **Standard**     <sup>1</sup> 208 VAC and 265 VAC output options designed to be used with external transformer; <sup>2</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.**
- **Optional**

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