

*Grid-Tied PV Inverters*

*PVI 3000*

*PVI 4000*

*PVI 5000*

*PVI 5300*

*a breakthrough in efficiency and quality*



- *top CEC efficiency*
- *DC disconnect*
- *string combiner*
- *quick-mount bracket*
- *lightweight*
- *10 year warranty*
- *powerful LCD display*
- *latest UL1741/IEEE1547*
- *universal 240/208VAC*
- *positive ground option*
- *transformer isolation*
- *RS232&485 parts*
- *detachable DC wiring box*



Solectria introduces the PVI 3000/4000/5000/5300 inverter:  
exceptional quality and efficiency with more standard features.



**Product Information**

# INVERTER SPECIFICATIONS

|  | PVI 3000 | PVI 4000 | PVI 5000 | PVI 5300 |
|--|----------|----------|----------|----------|
|--|----------|----------|----------|----------|

## Input

|   |                |                |                |                |
|---|----------------|----------------|----------------|----------------|
| Continuous DC Power @240 VAC @208 VAC                       | 3050W<br>2840W | 4100W<br>3580W | 5150W<br>4520W | 5575W<br>4840W |
| Recommended Max. PV Array Power, STC Rating @208 VAC        | 3600W<br>3400W | 4900W<br>4300W | 6200W<br>5400W | 6700W<br>5800W |
| MPPT Voltage Range  | 200V-550 VDC   | 200V-550 VDC   | 200V-550 VDC   | 200V-550 VDC   |
| Maximum Input Voltage                                       | 600 VDC        | 600 VDC        | 600 VDC        | 600 VDC        |
| Strike Voltage  | 235 VDC        | 235 VDC        | 235 VDC        | 235 VDC        |
| Maximum Input Current                                       | 16 A           | 20 A           | 25 A           | 25 A           |
| Maximum Short Circuit Current                               | 24 A           | 24 A           | 30 A           | 30 A           |
| Fused Inputs or unfused bypass (choice of 8,10,12, or 15 A) | 3              | 4              | 4              | 4              |

## Output

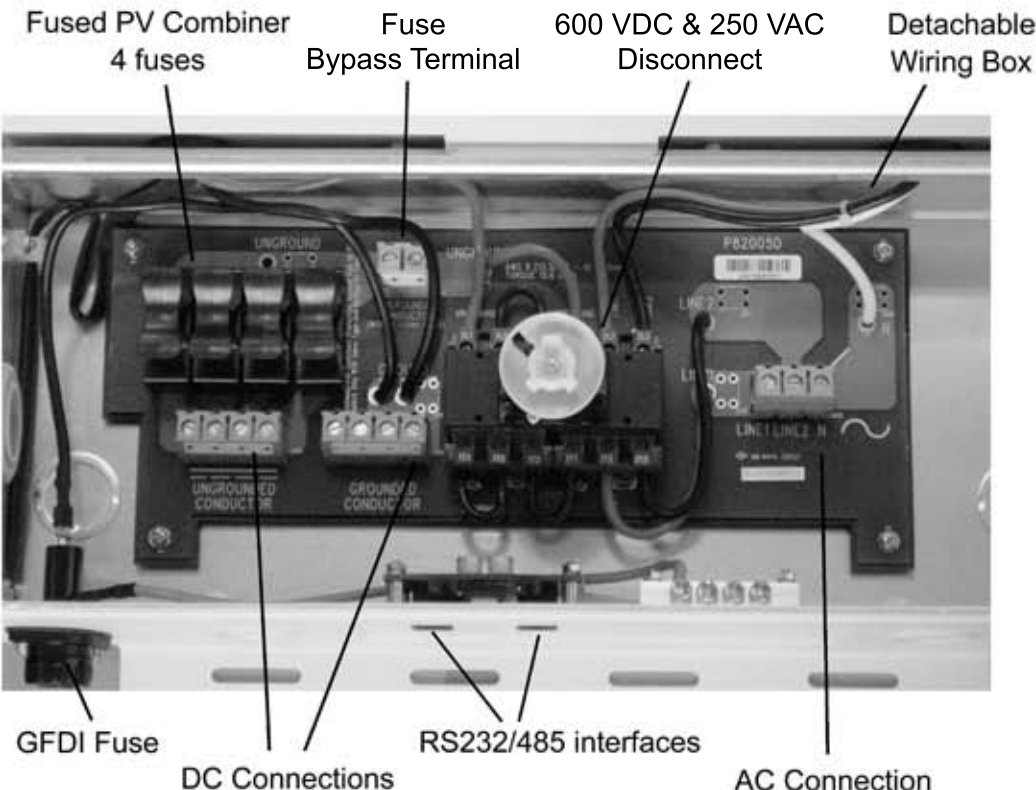
|                                    |                            |                            |                            |                            |
|------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Continuous Power @240 VAC @208 VAC | 2900W<br>2700W             | 3900W<br>3400W             | 4900W<br>4300W             | 5300W<br>4600W             |
| Voltage Range @240 VAC @208 VAC    | 212-264 VAC<br>184-228 VAC | 212-264 VAC<br>184-228 VAC | 212-264 VAC<br>184-228 VAC | 212-264 VAC<br>184-228 VAC |
| Frequency                          | 60Hz<br>Range: 59.3-60.5Hz | 60Hz<br>Range: 59.3-60.5Hz | 60Hz<br>Range: 59.3-60.5Hz | 60Hz<br>Range: 59.3-60.5Hz |
| Continuous Current                 | 13 A                       | 16.3 A                     | 20.7 A                     | 22.1 A                     |
| Output Current Protection Required | 20 A                       | 20 or 25 A                 | 25 or 30 A                 | 30 A                       |
| Max. Backfeed Current              | 0 A                        | 0 A                        | 0 A                        | 0 A                        |
| Power Factor                       | Unity, >99%                | Unity, >99%                | Unity, >99%                | Unity, >99%                |
| THD                                | <3%                        | <3%                        | <3%                        | <3%                        |
| Efficiency Peak @240 VAC @208 VAC  | 96.7<br>96.4               | 96.7<br>96.5               | 96.7<br>96.4               | 96.6<br>96.3               |
| CEC Efficiency @240 VAC @208 VAC   | 96.0<br>95.5               | 96.0<br>95.5               | 96.0<br>96.0               | 96.0<br>95.5               |

## General

|                           |   |                 |  |                 |
|---------------------------|---|-----------------|--|-----------------|
| Enclosure                 | Rainproof, NEMA 3R  |                 |  |                 |
| Housing Material          | Painted aluminum  |                 |  |                 |
| Ambient Temperature Range | -25°C to +55°C  |                 |  |                 |
| Cooling                   | Convection  |                 | Convection and fan assist                                |                 |
| Weight                    | 47 lb (21.4 kg)   | 48 lb (21.8 kg) | 58.5 lb (26.6 kg)  | 60 lb (27.4 kg) |
| Size (L x W x H)          | 29.75 in x 17.75 in x 6.75 in<br>(741mm x 454mm x 175mm)                |                 | 29.75 in x 17.75 in x 8.27 in<br>(741mm x 454mm x 210mm) |                 |
| Wire Sizes                | 12 to 6 AWG input and output connections                                |                 |  |                 |
| Standards                 | UL1741/IEEE1547, IEEE1547.1, CSA 22.2#107.1, ANSI62.41.2, FCC part 15 B |                 |  |                 |
| Warranty                  | 10 years standard   |                 |  |                 |

# INDUSTRY LEADING FEATURES

- Highest efficiency transformer-isolated inverters in the industry, 96% CEC, full line!
- Fully integrated with DC & AC disconnect, 3 or 4 fuse combiner (specify fuse values) and bypass terminal in detachable wiring box.
- Widest DC voltage range, 200-600 VDC.
- Easy installation with low weight (47-60 lb), quick-mount bracket feature, and universal 240/208 VAC auto-detect operation (with neutral).
- High reliability, 10 year warranty and certification to latest UL1741/IEEE1547.
- RS232&485 communication ports.
- Solrenview Inverter-Direct, web-based monitoring options (and other third party services), revenue-grade monitoring, agency reporting.
- Optional integrated panel assemblies with kWh meter and/or AC disconnect. 1 or 2 inverters handle 3-10.6 kW.



**SOLECTRIA RENEWABLES**

Lawrence, Massachusetts  
USA

Ph: 978.683.9700 (MA)

Ph: 562.608.8913 (CA)

Fax: 978.683.9702

E-mail: [inverters@solren.com](mailto:inverters@solren.com)

[www.solren.com](http://www.solren.com)