

PVI 50KW
PVI 60KW
PVI 75KW
PVI 85KW
PVI 100KW

FEATURES

- Highest peak and CEC efficiencies
- 50, 60, 75, 85 and 100 kW
- Integrated AC and DC disconnects
- Transformer isolated
- 208 VAC, 240 VAC, 480 VAC or 600 VAC
- Modbus communications
- User-interactive LCD

OPTIONS

- Premium efficient models
- Fuse or breaker subcombiner options
- Forward facing disconnects
- Stainless steel enclosure
- Web-based monitoring
- Sub-array monitoring
- Built-in cellular connectivity
- Dust filter

OPTIONS FOR UTILITIES

- Real power curtailment
- Reactive power control
- Voltage ride through
- Frequency ride through



COMMERCIAL INVERTERS

The most customizable full-line of commercial grid-tied PV inverters available today, the PVI 50-100KW series has been utilized in projects ranging from 30kW to multi-megawatt solar farms including a 30MW solar farm. This series of inverters is capable of operating at 208 VAC, 240 VAC, 480 VAC, and 600 VAC and comes standard with AC and DC disconnects, transformer isolation, LCD, and monitoring gateway. They also contain a lightweight power stage making it easily serviceable. Options include premium efficient models, integrated fuse or breaker subcombiners, forward facing disconnects, stainless steel enclosure, web-based and sub-array monitoring, built-in cellular connectivity, and a dust filter. AC voltage and frequency settings may be customized according to utility specifications.



| SPECIFICATIONS | | PVI 50KW | PVI 60KW | PVI 75KW PVI 75KW-PE | PVI 85KW PVI 85KW-PE | PVI 100KW PVI 100KW-PE |
|--|----------------------|---|---|-------------------------|-------------------------|---------------------------|
| DC Input | | | | | | |
| Absolute Maximum Input Voltage | | 600 VDC | | | | |
| MPPT Input Voltage Range | | 300-500 VDC | | | | |
| MPPT Input Voltage Range - Low Voltage Option | | 285-500 VDC | | | | |
| Maximum Operating Input Current | | 176 A | 211 A | 264 A | 299 A | 351 A |
| Maximum Operating Input Current - Low Voltage Option | | 185 A | 222 A | 278 A | 314 A | 370 A |
| Strike Voltage | | 400 V | | | | |
| Strike Voltage - Low Voltage Option | | 380 V | | | | |
| AC Output | | | | | | |
| Nominal Output Voltage | | 208, 240, 480 or 600 VAC, 3-Ph (3-wire standard, 4-wire optional) | | | | |
| AC Voltage Range (Standard) | | -12%/+10% | | | | |
| Continuous Output Power | | 50 kW | 60 kW | 75 kW | 85 kW | 100 kW |
| Continuous Output Current | 208 VAC | 139 A | 167 A | 208 A | 236 A | 278 A |
| | 240 VAC | 120 A | 144 A | 180 A | 205 A | 240 A |
| | 480 VAC | 60 A | 72 A | 90 A | 102 A | 120 A |
| | 600 VAC | 48 A | 58 A | 72 A | 82 A | 96 A |
| Maximum Backfeed Current | | 0 A | | | | |
| Nominal Output Frequency | | 60 Hz | | | | |
| Output Frequency Range | | 57.0 -60.5 Hz | | | | |
| Power Factor | | 1.0 | | | | |
| Total Harmonic Distortion (THD) | | <3% | | | | |
| Efficiency | | | | | | |
| Peak Efficiency | 208 VAC | 96.7% | 96.7% | 97.3% | 96.6% | 96.5% |
| | 208 VAC Premium (PE) | -- | -- | 97.8% | 97.4% | 97.3% |
| | 240 VAC | 97.7% | 97.8% | 97.1% | 96.7% | 96.9% |
| | 480 or 600 VAC | 96.5% | 96.5% | 97.2% | 96.9% | 96.9% |
| | 480 VAC Premium (PE) | -- | -- | 97.7% | 97.3% | 97.2% |
| CEC Efficiency | 208 VAC | 96.0% | 96.0% | 97.0% | 96.0% | 96.0% |
| | 208 VAC Premium (PE) | -- | -- | 97.5% | 97.0% | 97.0% |
| | 240 VAC | 97.0% | 97.0% | 96.0% | 96.0% | 96.0% |
| | 480 VAC | 96.0% | 96.0% | 97.0% | 96.5% | 96.5% |
| | 480 VAC Premium (PE) | -- | -- | 97.5% | -- | -- |
| Tare Loss | | < 3 W | | | | |
| Subcombiner Options | | | | | | |
| Fuses or Breakers | | 2-8 positions, 40-300 A | | | | |
| Temperature | | | | | | |
| Ambient Temperature Range (full power) | | -40°F to +131°F (-40°C to +55°C) | | | | |
| Storage Temperature Range | | -40°F to +131°F (-40°C to +55°C) | | | | |
| Relative Humidity (non-condensing) | | 0-95% | | | | |
| Data Monitoring | | | | | | |
| Optional SolrenView Web-based Monitoring | | Integrated | | | | |
| Optional Revenue Grade Monitoring | | External | | | | |
| Optional SolZone™ Sub-Array Monitoring (DC Current) | | 2-8 zones | | | | |
| Optional Cellular Communication | | SolrenView AIR | | | | |
| External Communication Interface | | RS485 SunSpec Modbus RTU | | | | |
| Certifications | | | | | | |
| Safety Listings & Certifications | | UL 1741/IEEE 1547, IEEE 1547.1, CSA C22.2#107.1, FCC part 15 B | | | | |
| Certification Agency | | ETL | | | | |
| Warranty | | | | | | |
| Standard | | 5 year | | | | |
| Optional | | 10, 15, 20 year; extended service agreement; uptime guarantee | | | | |
| Enclosure | | | | | | |
| dBA (Decibel) Rating | | < 62 dBA @ 3 m | | | | |
| Transformer | | Standard, fully-integrated (internal) | | | | |
| AC/DC Disconnects | | Standard, fully-integrated | | | | |
| Dimensions - Side Facing Disconnects (H x W x D) | | 78.2 in. x 50-53 in. x 33 in. (1986 mm x 1270-1346 mm x 838 mm)* | | | | |
| Dimensions - Forward Facing Disconnects (H x W x D) | | 78.2 in. x 79-88 in. x 33 in. (1986 mm x 2007-2235 mm x 838 mm)* | | | | |
| Weight | | 1450 lbs (659 kg) | PVI 75-100KW: 1875 lbs (852 kg) PVI 75-100KW/PE: 2070 lbs (941 kg) | | | |
| Enclosure Rating | | Type 3R | | | | |
| Enclosure Finish | | Polyester powder coated steel; Optional 316 stainless steel | | | | |

*Width dependent upon rating of disconnect chosen