



PV Powered solAron siteguard

PVP35kW and PVP50kW

Three-Phase inverter solutions for small commercial projects

The all new 35kW and 50kW commercial inverters feature the same industry leading reliability, efficiency, ease of installation, and lifetime maintainability of PV Powered’s larger commercial inverters. These two models are sized to serve smaller PV system designs, or to provide the perfect fit to complete a larger PV system. In addition, the 35kW and 50kW deliver the highest efficiency in their class and rival the efficiency of much larger inverters.

High reliability is enabled by a ground-up design for 20+ year operating life that features busbar power connections, card cage circuit board design, and the widest temperature rating of any inverter in its class. The highly integrated system saves installers time and money by including load-rated AC & DC service disconnects, neutral-free installation, oversized busbar landings and generous cable bending area. The 35kW and 50kW have a 295VDC minimum MPPT voltage that enables the stringing flexibility that is critical for smaller rooftop projects.

Advanced Energy backs all its commercial inverters with an industry-leading 10-year nationwide warranty and an optional 20-year warranty; plus the most responsive service and support team in the business.



Superior Reliability

- Designed for 20+ year operating life
- Smart Air Management™
- Low parts count reduces potential failure points
- Card cage circuit board system minimizes electronic interconnections

Exceptional Installability

- Bottom and side cable entry with generous bending area and oversized busbar landings
- Customizable subcombiner fusing options
- Full power output at 295 VDC enables more PV array design options
- Exterior mounting flanges for fast and easy anchoring with no pre-drilling

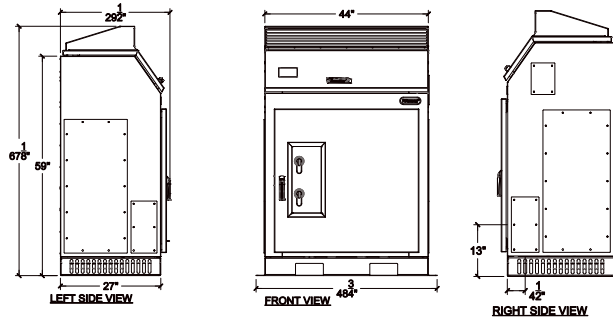
Easy to Maintain

- All maintenance and service via front access
- Fast change circuit board system shortens service time
- Load-rated AC and DC service disconnects
- Dedicated monitoring section separate from AC and DC modules

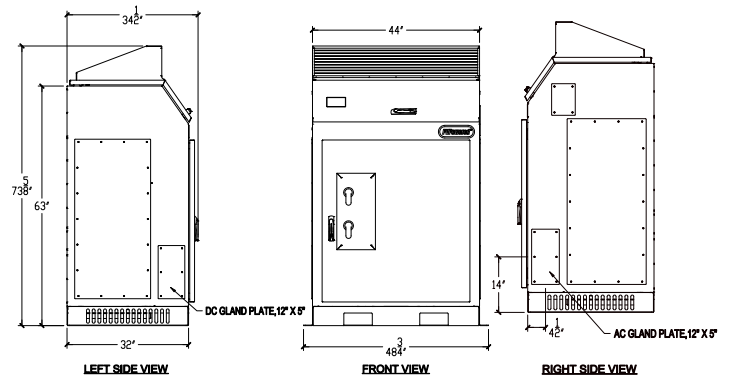


Dimensions

PVP 35kW



PVP 50kW



Electrical Specifications

Model	PVP 35kW	PVP 50kW
Continuous Output Power (kW)	35	50
Peak Efficiency (%)	97.0	97.2%
Weighted CEC Efficiency (%)	208: 95.5% 480: 96.0% 600: 95.5%	208: 96.0% 480: 96.0% 600: 96.0%
Maximum DC Input Voltage (VOC)	600	600
DC Peak Power Tracking Range (VDC)	295 - 595	295 - 595
DC Imp Nominal Current (A)	125	178
AC Nominal Voltage (V)	208Y, 480Y, 600Y	208Y, 480Y, 600Y
AC Operating Range (V)	208: 183 - 228 480: 422 - 528 600: 528-660	208: 183 - 228 480: 422 - 528 600: 528-660
AC Frequency Range (Hz)	59.3 - 60.5	59.3 - 60.5
AC Maximum Continuous Current (A)	208: 100 480: 43 600: 35	208: 141 480: 61 600: 49
Standby Losses (W)	33	33
Harmonic Distortion (%THD)	<3	<3
Power Factor	>.99	>.99

Options

- Subcombiner fusing
- Integrated data monitoring solutions
- Integrated revenue grade meter
- Stainless Steel (PVP50kW only)
- Positive ground
- Preventative maintenance program
- 20-year extended warranty

Agency Approvals

UL 1741, IEEE519, IEEE929, IEEE1547, CSA 107.1-1, FCC Class A

Mechanical Specifications

Model	PVP 35kW	PVP 50kW
Enclosure	NEMA 4	NEMA 4
Construction	Powder Coated Steel	Powder Coated Steel Optional Stainless Steel
Mounting	Pad Mount	Pad Mount
Weight (lbs)	1200	1500
Cooling	Forced Convection	Forced Convection
Operating Temperature Range (°C)	-30 to 50	-30 to 50
Standby/Storage Ambient Temperature Range (°C)	-40 to 60	-40 to 60
Isolation Transformer	Yes	Yes
Declared dual number noise emission values in accordance with ISO 4871 (dBA)3"	Full load at 6 ft=54 dBA Full load at 50ft=44 dBA	Full load at 6 ft=54 dBA Full load at 50ft=44 dBA

* dBA=decibels measured according to A-weighted time average sound pressure level. The uncertainty value (K) = 3 dBA.

Specifications are subject to change without notice.



Advanced Energy Industries, Inc. • 20720 Brinson Blvd. PO Box 7348 • Bend, 97708 OR U.S.A.
T: 877.312.3832 • sales.support@aei.com • www.advanced-energy.com/renewables
Please see www.advanced-energy.com for worldwide contact information.

© Advanced Energy Industries, Inc. 2011
All rights reserved. Printed in U.S.A.
55-600100-67DO 0M 6/11

