PVPowered™

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 new 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.

PV Powered 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.

PERFORMANCE MONITORING

Increase uptime and reduce maintenance costs with inverter-integrated monitoring solutions from market-leading third party partners. Each engineered solution is housed on a UL508A panel to deliver the highest level of safety, configurablility and reliability. With the optional revenue grade meter and string level monitoring, PV Powered offers unprecedented choice and convenience.

DECK Monitoring · ENERGY RECOMMERCE · DRAKER LABORATORIES · Fat Spaniel TECHNOLOGIES

INVERTER FEATURES

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 entry with generous bending area and oversized busbar landings
- Large DC sub-combiner area with the industry's most flexible 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

All PV Powered products are designed and manufactured in the U.S., are fully compliant with the Buy American Act, and qualify for projects funded by the federal stimulus package.

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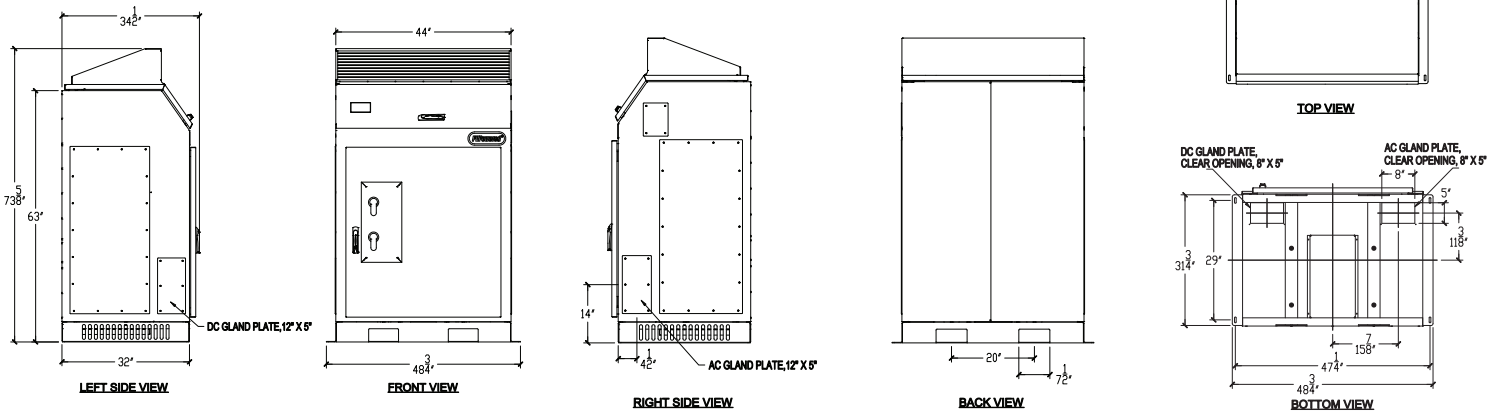
DIMENSIONS



(complete design documentation including seismic calculations available upon request)

ELECTRICAL SPECIFICATIONS

MODEL	PVP35kW	PVP50kW
Continuous Output Power (kW)	35	50
Peak Efficiency (%)	96.6% (est)	97.1% (est)
Weighted CEC Efficiency (%)	95.5% (est)	96.0% (est)
Maximum DC Input Voltage (VOC)	600	600
DC Peak Power Tracking Range (VDC)	295 – 595	295 - 595
DC Imp Nominal Current (A)	125	177
AC Nominal Voltage (V)	208, 480, 600	208, 480, 600
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: 54 600: 43	208: 143 480: 62 600: 50
Standby Losses (W)	25 (est)	25 (est)
Harmonic Distortion (%THD)	< 3	< 3
Power Factor	> .99	> .99

MECHANICAL SPECIFICATIONS

MODEL	PVP35kW	PVP50kW
Enclosure	NEMA 4	NEMA 4
Construction	Powder Coated Steel	Powder Coated Steel
Mounting	Pad Mount	Pad Mount
Weight (lbs)	1200 (est)	1600 (est)
Cooling	Forced Convection	Forced Convection
Temperature Range (°C)	-30 to 50	-30 to 50
Isolation Transformer	Yes	Yes

OPTIONS

- Fused sub-array combiners
- Integrated revenue grade meter
- Positive ground
- Third party integrated data monitoring solutions
- Preventative maintenance program
- 20-Year extended warranty

AGENCY APPROVALS (PENDING)

UL 1741, IEEE 519, IEEE 929, IEEE 1547, CSA 107.1-1, FCC Class B

C ETL LISTED US
Intertek