

GENERAC®

PWRCELL

7.6 KW 1Ø PWRCELL INVERTER

Model #: XVT076A03 (includes CTs)



Solar + storage is simple with the Generac PWRcell™ Inverter. This bi-directional, REbus™-powered inverter offers a simple, efficient design for integrating smart batteries with solar and Generac generators. Ideal for backup power applications, as well as self-supply and zero-export energy cost management, PWRcell Inverters are among the most feature-rich in the industry.

FEATURES & BENEFITS

- Single inverter for solar + battery storage and generator integration
- Simplified system design: No autotransformer or battery inverter needed
- User-selectable modes for backup power, self-supply, time-of-use, zero-import and export limiting
- Integrated system monitoring for installers and users via PWRfleet web portal and PWRview™ mobile apps

AC OUTPUT/GRID-TIE

CONT. GRID-TIED AC POWER @ 50°C (122°F):	7600 W
AC OUTPUT VOLTAGE:	120/240, 1Ø VAC
AC FREQUENCY:	60 Hz
MAXIMUM CONTINUOUS OUTPUT CURRENT:	32 A, RMS
CHARGE BATTERY FROM AC:	Yes ¹
THD (CURRENT):	< 2%
TYPICAL NIGHTTIME POWER CONSUMPTION ² :	< 7 W

AC OUTPUT (ISLAND MODE)

MAX. AC POWER ³ :	7600 W
MAX. AC POWER WITH EXTERNAL TRANSFER SWITCH AND SINGLE 6 MODULE BATTERY CABINET ⁴ :	9000 W
MAX. AC POWER WITH EXTERNAL TRANSFER SWITCH AND 2X BATTERY CABINETS (8 MODULES MIN.) ⁴ :	11000 W
PEAK MOTOR STARTING CURRENT (2 SEC):	50 A, RMS
AC BACKUP OUTPUT VOLTAGE:	120/240, 1Ø VAC
AC FREQUENCY:	60 Hz
THD (VOLTAGE):	< 2%
ALLOWABLE SPLIT PHASE IMBALANCE:	Up to 30%

DC INPUT

DC INPUT VOLTAGE RANGE:	360-420 VDC
NOMINAL DC BUS VOLTAGE:	380 VDC
MAX INPUT CURRENT PER DC INPUT:	24 A
DC DISTRIBUTION INPUT BREAKERS:	4 x 2-Pole 30 A
DC BUS EXPORT FUSES (+/-):	40 A
REVERSE-POLARITY PROTECTION:	Yes
TRANSFORMERLESS, UNGROUNDED:	Yes
2-POLE DISCONNECTION:	Yes
GROUND-FAULT ISOLATION DETECTION:	Included

EFFICIENCY

PEAK EFFICIENCY:	97.3%
CEC WEIGHTED EFFICIENCY:	97%
TYPICAL ROUNDTRIP EFFICIENCY ⁵ :	90%

¹Where permitted by utility.

²Nighttime power consumption depends on the system mode and accessories.

³In Island Mode, continuous power output is restricted to 7.6 kW unless backup power is routed through an external transfer switch in a whole home backup application.

⁴Peak performance, values provided for 40°C (104°F).

⁵AC to Battery to AC.

Specifications

FEATURES AND MODES

MODES:	Island Mode, Grid Sell, Self-Consumption, Zero Export, Zero Import, Time-of-Use, Grid Support
COMPATIBLE EQUIPMENT:	PWRcell Battery, PWRzone Solar, AC Coupled PV ⁶ , PWRgenerator, PWRmanager, PWRcell Automatic Transfer Switches, Smart Management Modules (SMMs)
ESS PCS OPERATION MODES (IMPORT ONLY, EXPORT ONLY):	Yes

ADDITIONAL FEATURES

SUPPORTED COMMUNICATION INTERFACES:	REbus™, Ethernet
SYSTEM MONITORING:	PWRfleet and PWRview™ Mobile App
BACKUP LOADS DISCONNECT:	50 A Circuit Breaker
INVERTER BYPASS SWITCH:	Automatic
WARRANTY:	10 Years

STANDARDS COMPLIANCE

SAFETY:	UL 1741+SA, CSA 22.2 #107.1, UL 1998
GRID CONNECTION STANDARDS:	IEEE 1547, Rule 21, Rule 14H (HECO V1.1), CSIP, UL 1741 PCS CRD (Import Only, Export Only)

DIMENSIONS AND INSTALLATION SPECIFICATIONS

ENCLOSURE KNOCKOUTS - QTY, SIZE - IN (MM):	6 x Combo 3/4" x 1" (19 x 25.4) 7 x Combo 1/2" x 3/4" (12.7 x 19) 1 x 0.575" exclusively for optional LTE antenna mounting
DIMENSIONS L x W x H - IN (MM):	24.5" x 19.25" x 8" (622.3 x 488.9 x 203.2)
WEIGHT - LB (KG):	62.7 (28.4)
COOLING:	Forced convection
AUDIBLE NOISE:	< 40 dBA
OPERATING TEMPERATURE:	-4 to 122 °F (-20 to 50 °C) ⁷
ENCLOSURE TYPE:	Type 3R

INSTALLATION GUIDELINES

BATTERY TYPES SUPPORTED:	PWRcell™ Battery
PV SUBSTRING SIZE PER PV LINK OPTIMIZER:	Varies, refer to PV Link Installation Manual
MAXIMUM RECOMMENDED DC POWER FROM PV ⁸ :	10 kW

⁶Up to 7.68 kW of AC Coupled PV. May not combine AC Coupled and DC Coupled PV sources. Requires M6 PWRcell Battery. SMMs must be set to lockout loads during backup.

⁷Includes ambient temperature rising from inverter operation. Reduced power at extreme temperatures.

⁸Values provided for PV-only or small energy storage systems. Additional PV power is permissible if sufficient battery storage capacity is installed.