

Pulsector

True On-Line, Double Conversion Uninterruptible Power Systems, 3KVA to 10KVA, Single-Phase, PWM Inverter

DESIGN BENEFITS

- True on-line reliable operation
- Total power line protection against spikes, surges, undervoltages and blackouts
- High Efficiency PWM inverter
- 130% overload capability
- High transverse mode noise attenuation of 80 db
- Low input current distortion
- 92% efficiency with 150% overload capacity
- Self-contained, sealed, maintenance-free batteries
- Outstanding non-linear load handling
- Up to 3 : 1 crest factor
- UL Listed, NYC Approved
- Demonstrated 250,000 hours MTBF

Two-year electronic warranty

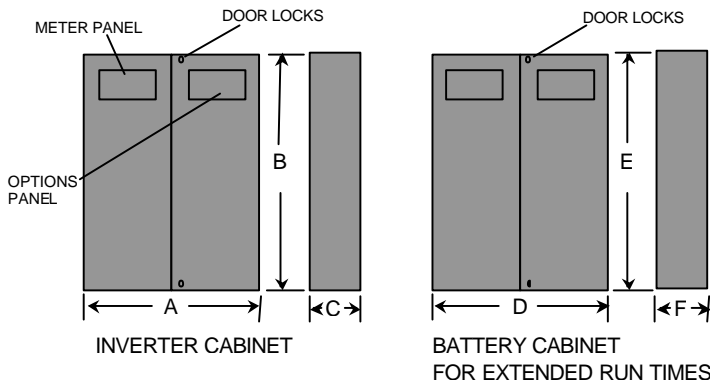
POPULAR OPTIONS

- Remote diagnostic interface via RS-232
- Extended run times
- External maintenance bypass switch
- Emergency Power Off

- **Mini/mainframe computer systems**
- **Multiple workstations and PCs**
- **Local area networks**
- **Instrumentation and process controls**
- **Medical electronics**

Providing your system with protection against all types of power disturbances, the Pulsector is a true on-line uninterruptible power system with internal static and maintenance bypass all included in one package. Compact design allows these systems to be installed in office and computer environments. Engineered for long term reliability, the internal transistor redundancy will maintain full load power in the event that up to 20% of the power switching transistors fail.

For quality design and workmanship, and years of product experience, choose Pulsector for reliable, AC power to your critical loads.



PULSECTOR Part Number/Rating/Mechanical Specifications

Part Number	VA Rating	Max. Util. Input Amps	System Effic. %	Heat Loss BTU's	UPS Cabinet Dimensions			UPS Weight lbs/kg	Battery Voltage VDC	Battery Current Amperes	Battery Run time	Audible Noise dbA at 6 feet Emerg. Only
					Width (A) in"/cm	Height (B) in"/cm	Depth (C) in"/cm					
PW-P003	3000	40	80	2200	42"/107	50"/127	19"/127	510/232	120	28	10	53
PW-P005	5000	65	80	3000	42"/107	50"/127	19"/127	637/291	120	48	10	54
PW-P007	7500	100	80	4500	42"/107	70"/178	19"/48	850/397	120	71	10	55
PW-P010	10000	140	80	6000	42"/107	70"/178	19"/48	860/402	120	95	6	56

* Run times specified are the minimum discharge time at 25 °C (77 °F). All input calculations are at 120VAC.

ELECTRICAL SPECIFICATIONS

INPUT

- **Standard input voltage:** 120VAC +10-20%. Other voltages available.
- **Input Frequency:** 60Hz +/- 5% (50Hz available upon request).
- **Synchronizing slew rate:** 1HZ per second nominal.
- **Input lighting protection:** Up to 10,000V, 320 joules, Meets IEEE 587/ANSI C62.41.
- **Input/output noise reduction:** 80 db transverse mode (with optional input isolation transformer).
- **Input circuit breaker:** For complete system protection.

OUTPUT

- **Output circuit breaker:** For complete system protection.

OUTPUT

- **Standard output voltage:** 120VAC +10-15%. Other voltages available.
- **Output Regulation (static):** input variations +/-1%, load current change +/-2%, battery discharge +/-1%.
- **Output Regulation (dynamic):** +/-3% for a 25% load step change, +/-6% for a 50% load step change, recovery within 1ms.
- **Output Frequency:** Normally, synchronized to utility, +/- .05% during emergency (50Hz available).
- **Output voltage distortion:** 3% THD linear load
- **Overload:** 130% for 5 min.
- **Load power factor:** .8 lag to .9 lead.
- **Time to transfer to inverter after a utility power failure:** None.

BATTERY

- **Standard battery:** Sealed Lead Calcium.
- **Battery Charger:** Automatic with internal diagnostic indicators. One LED type indicator for float mode and another for high charge mode.
- **Battery Protection:** Automatic low battery voltage disconnect. Automatic restart upon utility power return.
- **Battery circuit breaker:** Also used as a battery isolator.
- **Battery run times available:** Minutes: 15, 30, 60 and 120.

PHYSICAL

- **Operating temperature:** 0° to 40°C (32° to 104° F). Continues operation at higher or lower ambient temperature will affect battery life and run time, respectively. See battery warranty sheet for details.
- **Relative Humidity:** 95% non-condensing.
- **Front panel control group:** Metering: Battery DC volts, Load current, Input AC volts Output frequency, Mains Indicator (Green), Load Indicator (Green), Bypass indicator (Red).
- **Controls:** On/off key operated switch on.
- **Options:** See options section. External maintenance bypass available on all models.

SYSTEM OPERATION

(1) A solid state rectifier/charger transforms the incoming mains into a regulated DC supply charging the battery to provide the power requirements of the inverter.

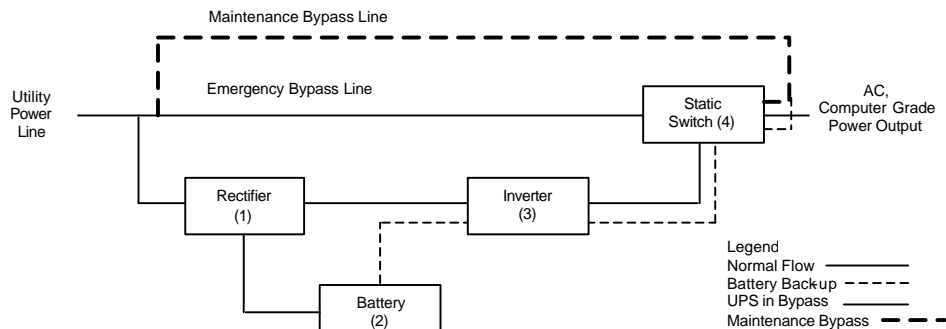
(2) A sealed maintenance free battery is provided to maintain power to the inverter. The battery is fitted with a suitably rated circuit breaker to provide overloads and short circuit protection and allows isolation from the UPS for maintenance purposes.

(3) A continuously running pulse width modulated transistorized static inverter transforms the battery energy into a low distortion, no-break, sine-wave AC voltage to supply critical load during power failure.

(4) A Static driven switch is provided to transfer the critical load to the mains without any interruption in case of:

- A. Voluntary shutdown of the inverter
- B. Inverter failure or malfunction
- C. Inverter overload

(5) In addition to the Static Driven Switch, a Manual Bypass is also provided which makes it possible to insulate the UPS from the mains and battery for maintenance without removing power to the critical load.



All specifications are subject to change without notice.