WPC-series
Recreational vehicles • Commercial trucks • Marine applications • Remote homes • Industrial back-up

Whisper Power Centre • Your integrated sine wave inverter/battery charger

Datasheet

WPC-2000-12 • WPC-3500-24 • WPC-4000-48
Robust heavy duty Power Centre for a perfect System Integration

- Combined charger and sine wave inverter
- Power support function (smart-boost)
- Highly efficient (93-96%)
- Superior start-up power
- Dual input: generator and grid/shore input
- Dual output: High power & inverter output
- Seamless AC source switching
- Available for 12, 24 and 48 VDC

green energy solutions
### Technical Specifications

#### Inverter
- **Nominal battery voltage**: 12 VDC, 24 VDC, 48 VDC
- **Input voltage range**: 9.5 - 17 VDC, 19 - 34 VDC, 38 - 68 VDC
- **Continuous power @ 25°C**: 2000VA, 3000VA, 3500VA
- **Power 30 min. @ 25°C**: 2000VA, 3500VA, 4000VA
- **Power 5 sec. @ 25°C**: 6000VA, 9000VA, 10500VA
- **Maximum load**: Up to short-circuit (fully protected)
- **Maximum a-symmetric load**: Up to continuous power
- **Load detection (stand-by)**: 2 to 25W (AES) Automatic Enable System
- **Power factor**: 0.1-1
- **Maximum efficiency**: 93%, 94%, 96%
- **Consumption Off/Stand-by/ON**: 1.4W/1.6W/9W, 1.4W/1.6W/12W, 1.8W/2.1W/14W
- **Output voltage**: Pure sine wave 230 VAC (+/- 2%)
- **Output frequency**: 50Hz / 60Hz (1) +/- 0.05% (crystal controlled)
- **Harmonic distortion (Voltage)**: <2% THD
- **Overload and short-circuit protection**: Automatic disconnection with 3 time restart attempt
- **Overheat protection**: Warning before shut-off with automatic restart

#### Battery charger
- **Charge Characteristic**: 6-step Bulk-Absorption-Floating-Equalization-reduced floating-periodic absorption. Number of steps, thresholds, return amps completely adjustable.
- **Maximum charging current**: 100A, 90A, 50A
- **Temperature compensation**: With Whisper temperature sensor WPC-BTS
- **Power Factor Correction (PFC)**: EN 61000-3-2

#### General data
- **Input voltage range**: 184 VAC to 250 VAC
- **Input frequency**: 45 to 65 Hz
- **Input current max. (transfer relay) / Output current max.**: 30A / 50A, 30A / 45A, 30A / 47A
- **Transfer time**: <15ms
- **Weight**: 25 kg, 28 kg, 28 kg
- **Dimension hxwxd [mm]**: 510 x 330 x 150
- **Protection degree**: IP21
- **Color**: RAL 9003
- **Conformity**: Directive EMC 2004/108/EC : EN 61000-6-1, EN 61000-6-3, EN 55014, EN 60950-2-2. Low voltage directive 2006/95/EC : EN 62040-1-1, EN 50509-1, EN 60950-1
- **Operating temperature range**: -20..+40°C, derating to 55°C
- **Relative humidity in operation**: 95% without condensation
- **Ventilation**: Forced from 45°C
- **Acoustic level**: <40dB / <45dB (without/with ventilation)
- **Warranty**: 2 years

*) Designed to operate with Whisper SC & SQ diesel generators. ‘Powerbox’ delivered as part of the Genverter 7i.