



green energy solutions

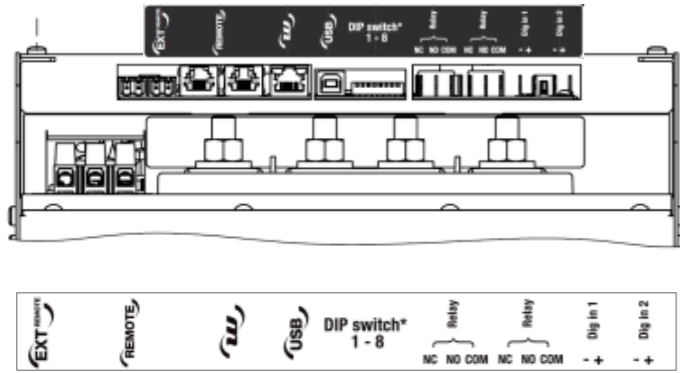
# WP-ACP AC PowerCube

High power true sine wave current from your batteries

Marine • Mobile • Land-based

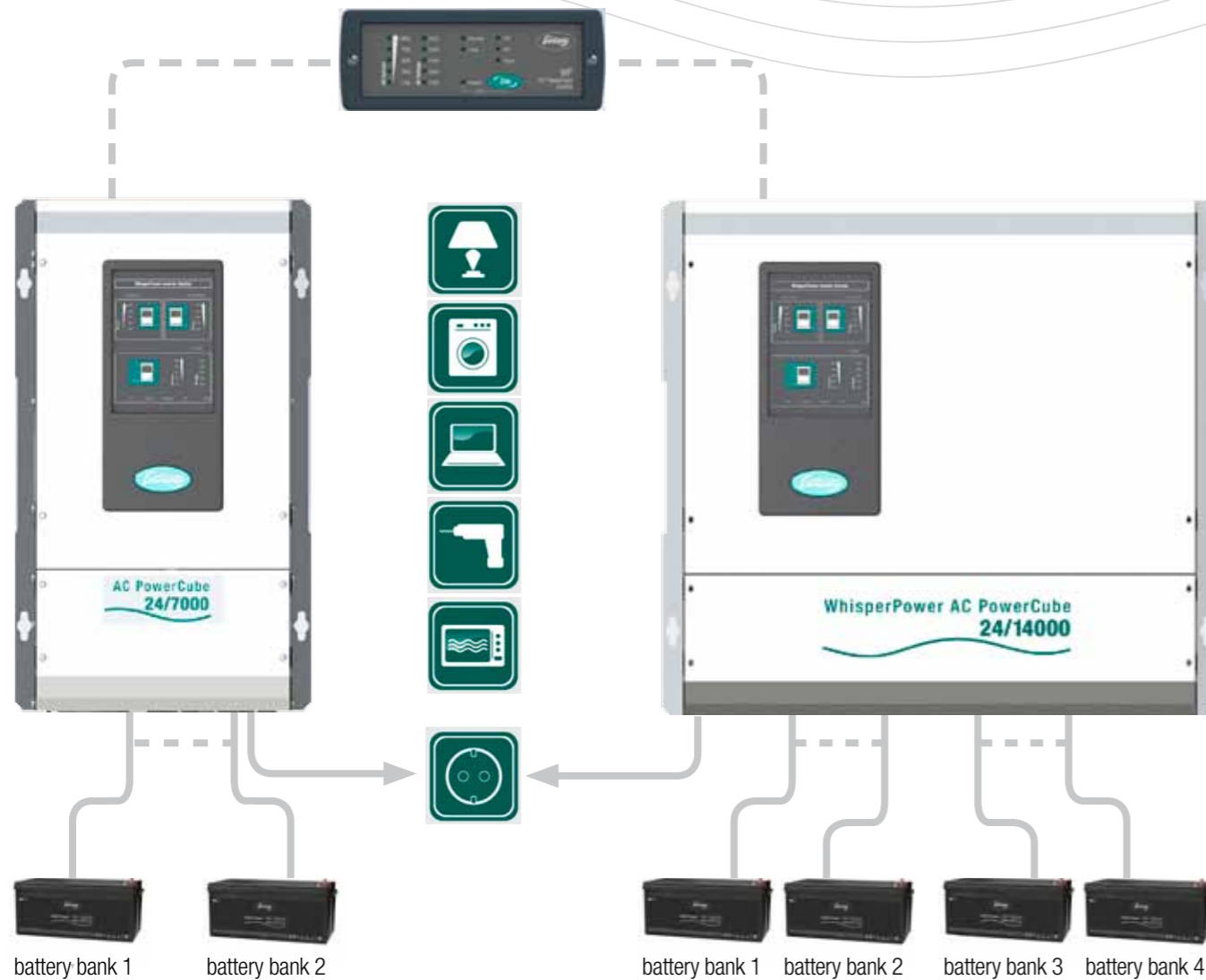


Datasheet



## WP-ACP 24/7000 24/14000

- Heavy-duty, but light-weight, thanks to modern switch-mode concept
- 7kW and 14kW sine wave inverter for backup and peak demand
- Surge power capability exceeding 200%, allowing inductive loads to start up smoothly
- Multiple battery connections using standard cables
- High system efficiency saves energy
- Compatible with WhisperPower Genverter and DC PowerCube



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| AC POWERCUBE 24/7000                                   |                                   |
|--|-----------------------------------|
| Article nr.  | 60203004                          |
| <b>GENERAL SPECIFICATIONS</b>                          |                                   |
| Nominal output voltage                                 | 230V (± 5%), 1-phase, 3-wired     |
| Nominal output frequency                               | 50Hz (± 0.01Hz)                   |
| Nominal battery voltage                                | 24V (2 inputs, common ground)     |
| Minimum battery capacity                               | 1 × 600Ah (summarised); 2 × 300Ah |
| Rated power P30 (cos phi = 1, 30 min. at 40°C / 104°F) | 7000W                             |
| Continuous power (cos phi) = 1, 40°C / 104°F)          | 6000W                             |
| Peak load (20 sec.)                                    | 14000W                            |
| Output load  | True sine                         |
| Efficiency   | > 85%                             |
| Peak efficiency  | > 92%                             |
| Dimensions, w × d × h                                  | 334 × 316 × 575mm                 |
| Weight   | 28,5kg                            |
| Sound level (@1meter distance)                         | 48dBA                             |

| AC POWERCUBE 24/14000                                  |   |
|--|---|
| Article nr.  | 60203005                                      |
| <b>GENERAL SPECIFICATIONS</b>                          |   |
| Nominal output voltage                                 | 230V (± 5%), 1-phase, 3-wired                 |
| Nominal output frequency                               | 50Hz (± 0.01Hz)                               |
| Nominal battery voltage                                | 24V (4 inputs, common ground)                 |
| Minimum battery capacity                               | 1 × 1200Ah (summarised); 4 × 300Ah; 2 × 600Ah |
| Rated power P30 (cos phi = 1, 30 min. at 40°C / 104°F) | 14000W  |
| Continuous power (cos phi) = 1, 40°C/104°F)            | 12000W  |
| Peak load (20 sec.)                                    | 28000W  |
| Output load  | True sine                                     |
| Efficiency   | > 85%   |
| Peak efficiency  | > 92%   |
| Dimensions, w × d × h                                  | 618 × 316 × 575mm                             |
| Weight   | 57kg  |
| Sound level (@1meter distance)                         | 48dBA   |

| AC POWERCUBE 24/7000                    |  | AC POWERCUBE 24/14000                                      |  |
|---|--|--|--|
| <b>TECHNICAL SPECIFICATIONS</b>         |  |  |  |
| Technology                              | Six-stage multi-phase flyback, switch mode   |  |  |
| AC connection                           | Internal screw terminal connection (4 .. 6mm <sup>2</sup> )  |  |  |
| DC connection                           | 4 × M10  | 4 × M10 (2 per battery bank)                               |  |
| Controls                                | Main switch (On / Off / Remote), DC source switches (On / Off), Remote panel switch (On / Off)   |  |  |
| Indicators                              | AC present, DC 1 input present, DC (1) load, DC 2 input present, DC (2) load, AC current, AC voltage, Overload, Temperature, UVP, OVP, Failure   |  |  |
| Protection                              | Short circuit, Overload, Overheating, Battery low / high   |  |  |
| Low battery switch off                  | 19V (± 0.5V)   | 19V (± 0.5V)   |  |
| Low battery switch on                   | 22V (± 0.5V)   | 22V (± 0.5V)   |  |
| High battery switch off                 | 32V (± 0.5V)   | 32V (± 0.5V)   |  |
| High battery switch on                  | 30V (± 0.5V)   | 30V (± 0.5V)   |  |
| Maximum ripple on DC (battery)          | 5% RMS   | 5% RMS   |  |
| Input current (nominal load)            | 2 × 200A   | 4 × 200A   |  |
| No-load power consumption (On mode)     | < 550mA, 2 × 12W   | < 2 × 1100mA, 2 × 24W                                      |  |
| THD (Total harmonic distortion) voltage | < 5% (typical)   | < 5% (typical)   |  |
| Allowable power factor                  | 0 < cos phi < 1  | 0 < cos phi < 1  |  |
| <b>CONDITIONS</b>                       |  |  |  |
| Ambiant working temperature             | -20°C .. 40°C / -4°F .. 104°F  | -20°C .. 40°C / -4°F .. 104°F                              |  |
| Storage temperature                     | -25°C .. 80°C / -13°F .. 176°F (derating above 40°C/104°F)   | -25°C .. 80°C / -13°F .. 176°F (derating above 40°C/104°F) |  |
| Relative humidity                       | Max. 95%, non-condensing   | Max. 95%, non-condensing                                   |  |
| Protection degree                       | IP23   | IP23   |  |
| Cooling                                 | natural / forced   |  |  |
| <b>COMPLIANCE</b>                       |  |  |  |
| Directives                              | EMC 2004/108/EC, EMC 2004/104/EC (automotiv), LVD 2006/95/EC   |  |  |
| Standards                               | EN 55022 (emission), EN 61000-3-2 (harmonics), EN 61000-3-3, EN 61000-4-11 (voltage fluctuations), EN 61000-6-2 (immunity), EN 60950-1 (safety), EN 68-2-6 (vibration), EN 60945 (maritime navigation and radiocommunication), UL 458 (power converters / inverters) |  |  |

### Features

- Powerful switch mode sine wave inverter for non-stop use
- Continuous output power: 7kW and 14kW; peak load 200%
- Peak efficiency over 92%, limited power loss in DC to AC conversion
- Heavy duty DC connections (2 × battery +, 2 × battery -)
- Heavy duty AC connections, all hard wiring
- WhisperConnect CAN connectivity
- Super silent, no humming, switched mode technology

### Accessories

- DC battery cables, 6 metres
- Remote panel analogue / on-off / DC-AC information
- Remote panel digital Power System Control Panel
- WhisperSwitch / transfer switch Shore-Generator / Inverter

### Benefits

Demanding customers value our intelligent solutions in the field of independent, clean and efficient power generation such as the AC PowerCube. Extremely stable and powerful, this true sine wave inverter is the perfect backbone for any off-grid system, including solar installations.

Our WP-AC high power technology and smart system design save lots of generator running hours as compared to traditional

generator sets. Saving fuel and cutting maintenance costs, the AC PowerCube will prove to be both energy and cost efficient in the long run.

When combined with a WhisperPower Genverter and DC PowerCube, the AC PowerCube system will be the ultimate independent power supply system, offering hassle-free operation, silent energy, redundancy, robustness and efficiency.

