THE POWER PEOPLE

# PowerSine Combi 2000W – 3500W (12V/24V)

CE E9

All units carry E-Mark certification for legal use aboard vehicles

- Design emphasis on reliability and performance
- Pure sinewave inverter with 4 stage programmable battery charger
- AC PowerBoost facility
- AC Input Current Limit facility
- Super fast AC transfer switch
- Easy control from remote panel

PowerSine Combi is designed for critical use applications where absolute reliability is required to ensure mission success. Designed and built in Europe using high specification leading brand electronic components, PowerSine Combi will give years of reliable service and outstanding performance.

Providing a pure-sinewave output with <5% THD with robust output electronics means that this unit may be safely used with the most sensitive of electrical loads yet be able to handle high in-rush current for inductive items. This unit is perfect for off-grid, paramedic, outside broadcast, surveillance and emergency back-up power applications.

The internal charger uses the same principles as our OmniCharge professional battery chargers to ensure maximum life and performance from both lead/acid and lithium-ion battery technologies.

PowerSine Combi also features PowerBoost mode which allows the unit to assist low power generators and shore-supplies to run electrical loads. It works like this:

Say, a 1kW generator is plugged into your vehicle. You are running a computer from your AC ring main. The PowerSine Combi is in charger mode. Because the powerful charger in the combi is too large for the generator, the unit has de-rated the charger so that it pulls less current and prevents overload. You then switch on 1500w power tool. Instantaneously, the PowerSine Combi stops charging, switches to invert mode and parallels with the incoming generator power. 1000w comes from the generator, 500w from the inverter. When the power tool is switched off, the PowerSine Combi reverts back to charge mode and replensishes the battery. All the time your computer worked seamlessly and didn't receive fluctuating power.

The PowerBoost mode allows you to operate larger electrical systems from smaller generators and shore-supplies— saving money, space and weight.

Universal Remote Control

Basic Remote Control

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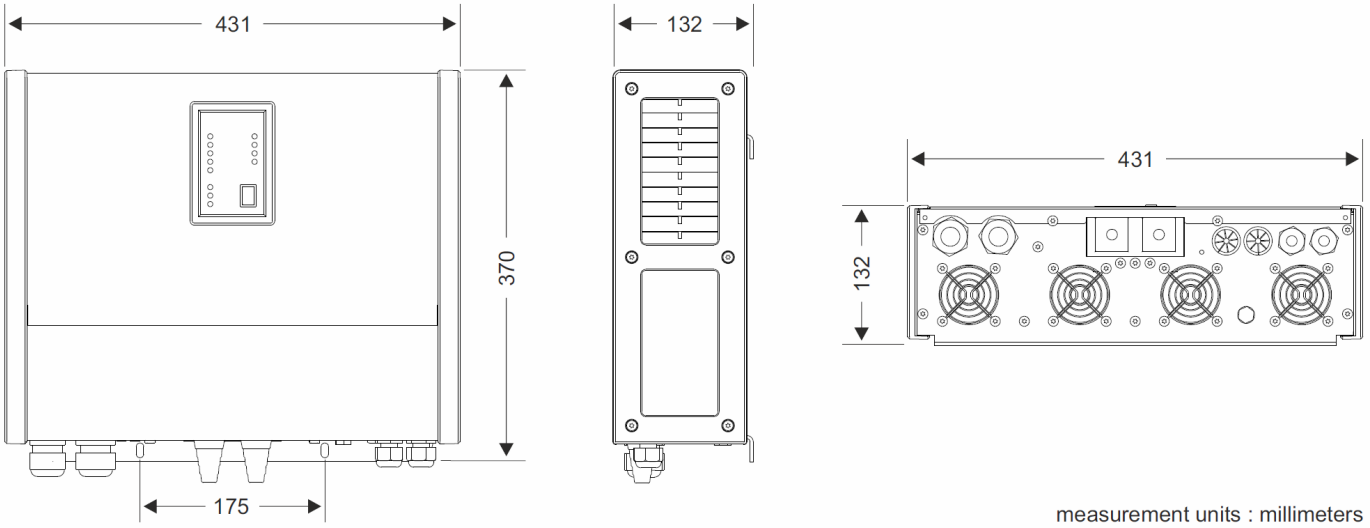
| PART | 30-2010 | 30-2014 | 30-2012 | 30-2016 |
|---|---|---|---|---|
| PARAMETER | PSC2000-12-80 | PSC3000-12-120 | PSC2500-24-50 | PSC3500-24-70 |
| OUTPUT POWER PNOM | 1800W | 2600W | 2000W | 2800W |
| P10MINUTES | 2100W | 3200W | 2500W | 3800W |
| PSURGE | 4000W | 5000W | 5500W | 6500W |
| OUTPUT VOLTAGE | 230Vac ± 2% / 50Hz or 60Hz ± 0.05% | | | |
| OUTPUT WAVEFORM | True sinewave (THD < 5%1) @ Pnom) | | | |
| INPUT VOLTAGE: NOMINAL | 12Vdc | 12Vdc | 24Vdc | 24Vdc |
| RANGE | 10.0 – 16.5Vdc | 10.0- 16.5Vdc | 20.0-33.0Vdc | 20.0-33.0Vdc |
| MAXIMUM EFFICIENCY | 92% | 92% | 93% | 93% |
| NO LOAD POWER CONSUMPTION (ASB) | <20W [3.5W] | <20W [3.5W] | <20W [4W] | <20W [4W] |
| CHARGER STAGE : | | | | |
| AC INPUT VOLTAGE | 185 - 270Vac / 45 - 65Hz / PF > 0.95 | | | |
| MAXIMUM CONTINOUS CHARGIN CURRENT (SECONDARY OUTPUT) | 80A (4A) | 120A (4A) | 50A (4A) | 70A (4A) |
| STANDARD CHARGE VOLTAGE (BULK/FLOAT @ 25°C) | 14.3V / 13.3V | 14.3V/ 13.3V | 28.6V / 26.6V | 28.6V/ 26.6V |
| CHARGE ALGORITHM | IUoUoP, intelligent 4-stage, temperature compensated (programmable) | | | |
| AC TRANSFER SWITCH: | | | | |
| MAXIMUM CONTINOUS CURRENT | 30Arms | | | |
| TRANSFER TIME (TYPICAL) | 0ms (inverter → mains) / < 5ms (mains → inverter) | | | |
| GENERAL : | | | | |
| TBSLINIK ENABLED | Yes | Yes | Yes | Yes |
| PROTECTIONS | high/low battery voltage, high temperature, overload, short circuit, high ripple voltage and low AC input voltage | | | |
| DC CONNECTIONS | M10 bolt terminals | | | |
| AC CONNECTIONS | Screw terminals | | | |
| ENCLOSURE BODY SIZE (HEIGH X WIDTH X DEPTH) | 370 x 431 x 132mm | | | |
| TOTAL WEIGHT | 18.5Kg | 18.5Kg | 19kg | 19kg |
| PROTECTION CLASS/ OPERATING TEMP/ STORAGE TEMP | IP21 / -20°C to + 50°C / -40°C to + 80°C (humidity max. 95% non condensing) | | | |
| STANDARDS | CE marked meeting EMC directive 2004/108/EC and LVD 2006/95/EC complying with EN60335-1, EN60335-2-29 and RoHS 2002/95/EC | | | |




measurement units : millimeters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