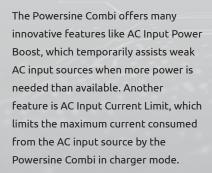


Powersine Combi

2000-12-80, 2500-24-50, 3000-12-120 and 3500-24-70

Description

The PSC2000-12-80 up to PSC3500- 24-70 Powersine Combi products are based on the latest generation Powersine inverter engine, which guarantees very reliable operation and huge output power reserves. The Powersine Combi also features a powerful intelligent battery charger and an ultra fast AC transfer switch. All this is combined in a very compact, yet installer friendly unit.



Furthermore, the Powersine Combi is equipped with a TBSLink port to connect to a remote control or to a Windows device running TBS Dashboard, for easy step by step configuration and readout.

Also available are two fully configurable 16A alarm relay



outputs and two unique trigger inputs, that can convert external trigger commands into a number of Powersine Combi status changes.

Each Powersine Combi comes standard with a mounting kit, a temperature sensor, crimp terminals for DC cables and clear manuals.

Features

- True sinewave AC output
- Robust industrial design
- · High surge power output
- Powerful 4-stage two output battery charger
- Power factor corrected AC input
- Fast 30A AC transfer switch
- AC Input Power Boost
- AC Input Current Limit
- Protected against high/low battery voltage, high temperature, overload, short circuit, high ripple voltage and low AC input voltage

- Automatic Standby function to reduce no-load
- power consumption
- Variable speed fan for silent operation
- Remote on/off capability
- Two programmable 250V/16A relays
- Two trigger inputs
- Remote control capability via TBSLink
- Easy to access connection bay for installing AC-, DC and control wiring
- CE certified
- 24 month warranty 24 month warranty

Applications

- Recreational vehicles
- Marine applications
- Solar power systems
- Industrial systems
- Mobile entertainment systems
- Service vehicles
- Remote homes

Accessories

- Universal Remote Control with LCD
- Basic Remote Control with LEDs



Basic Combi Remote Control, art # 5095210

- TBSLink communication kit including software
- Alarm output expander



Universal Remote Control (Powersine Combi), art # 5095500

TBSLink to USB Interface Kit, art # 5092120 (Includes TBS Dashboard for monitoring and configuring the Powersine Combi inverter/chargers)



Technical specifications

| Parameter | | PSC2000-12-80 art # 5018100 | PSC2500-24-50 art # 5018120 | PSC3000-12-120 art # 5018300 | PSC3500-24-70 art # 5018320 |
|--|--|--|-------------------------------------|---------------------------------------|---------------------------------------|
| Inverter stage | | | | | |
| Output power¹) | Pnom | 1800W | 2000W | 2600W | 2800W |
| | P10minutes | 2100W | 2500W | 3200W | 3800W |
| | Psurge | 4000W | 5500W | 5000W | 6500W |
| Output voltage | | 230Vac ± 2% | | | |
| Output frequency | | 50Hz or 60Hz ± 0.05% (selectable) | | | |
| Output waveform | | True sinewave (THD < 5%1) @ Pnom) | | | |
| | Nominal Range | 12Vdc 10.0 ²⁾ – 16.5Vdc | 24Vdc 20.0 ²⁾ – 33Vdc | 12Vdc 10.0 ²⁾ – 16.5Vdc | 24Vdc 20.0 ²⁾ – 33.0Vdc |
| Maximum efficiency | | 92% | 93% | 92% | 93% |
| No load power consumption ³⁾ | [ASB] | <19W [2.0W] | <20W [2.0W] | <19W [2.0W] | <20W [2.0W] |
| Charger stage | | | | | |
| AC input voltage | | 185 - 270Vac / 45 - 65Hz / PF > 0.95 | | | |
| Maximum continuous charging current ⁴⁾ (Secondary output) | g | 80A (4A) | 50A (4A) | 120A (4A) | 70A (4A) |
| Standard charge voltage (bulk) | / float @ 25°C) | 14.3Vdc / 13.3Vdc | 28.6Vdc / 26.6Vdc | 14.3Vdc / 13.3Vdc | 28.6Vdc / 26.6Vdc |
| Charge algorithm | | IUoUoP, intelligent 4-stage, temperature compensated (programmable) | | | |
| AC Transfer switch | | | | | |
| Maximum continuous current | | 30Arms | | | |
| Transfer time (typical) | | 0ms (inverter \rightarrow mains) / < 5ms (mains \rightarrow inverter) | | | |
| General | | | | | |
| Communication port | | TBSLink | | | |
| Protected against | | high/low battery voltage, high temperature, overload, short circuit, high ripple voltage and low AC input voltage | | | |
| Indications | Power on, output power bar, error and ASB mode | | | | |
| DC input connections | | M10 bolt terminals | | | |
| AC output connections | | Screw terminals | | | |
| Enclosure body size (height x width x depth) | | 370 x 431 x 132 mm | | | |
| Total weight | | 18.5 kg | 18.5 kg | 19.0 kg | 19.0 kg |
| 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 2014/30/EU and LVD 2014/35/EU complying with EN60335-1, EN60335-2-29 and RoHS 2011/65/EU | | | |
| Note: the given specifications are subject to change without n | | | | | |

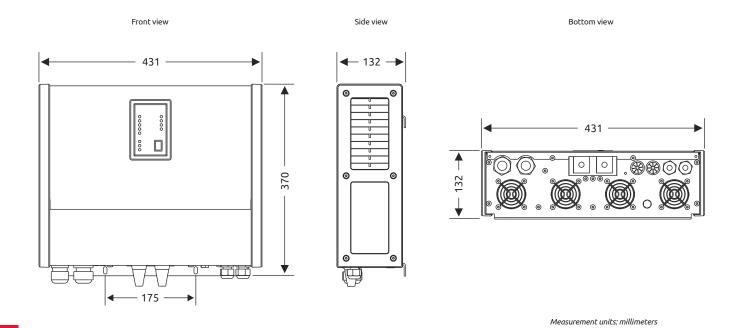
¹⁾ Measured with resistive load at 25°C ambient. Power ratings are subject to a tolerance of 10% and are decreasing as temperature rises with a rate of approx. 1.2%/°C starting from 25°C

lote: the given specifications are subject to change without notice.

² Undervoltage limit is dynamic. This limit decreases with increasing load to compensate the voltage drop across cables and connections

³⁾ Measured at nominal input voltage and 25°C

⁴⁾ At high ambient temperatures, maximum output current shall be reduced automatically



Basic application diagram

