



The Powersine Combi 2000W–3500W (12V/24V) 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.

The Powersine Combi offers many innovative features like AC Input Power Boost, which temporarily assists weak AC input sources when more power is needed than available. Another feature is AC Input Current Limit, which limits the maximum current consumed from the AC input source by the Powersine Combi in charger mode.

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. (Contact support@power-store.com)

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
- CE Certified
- 24 month warranty

- Two trigger inputs
- Remote control capability via TBSLink
- Easy to access connection bay for installing AC-, DC and control wiring

## Applications

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

Product	2000W - 12V - 80A	2500W - 24V - 50A	3000W - 12V - 120A	3500W - 24V - 70A
Part Number	30-2010	30-2012	30-2014	30-2016
Inverter Stage				
Output Power <sup>1</sup>				
Pnom	1800w	2000w	2600w	2800w
P10minutes	2100w	2500w	3200w	3800w
Psurge	4000w	5500w	5000w	6500w
Output voltage / frequency	230Vac ± 2% / 50Hz or 60Hz ± 0.05%			
Output waveform	True sinewave (THD < 5% <sup>1</sup> @ Pnom)			
Input voltage				
Nominal	12Vdc	24Vdc	12Vdc	24Vdc
Range	10.0 <sup>2</sup> - 16.5Vdc	20.0 <sup>2</sup> - 33.0Vdc	10.0 <sup>2</sup> - 16.5Vdc	20.0 <sup>2</sup> - 33.0Vdc
Maximum efficiency	92%	93%	92%	93%
No load power consumption <sup>3</sup> [ASB]	<20W [3.5W]	<20W [4]	<20W [3.5W]	<20W [4W]
Charger Stage				
AC input voltage	185 - 270Vac / 45 - 65Hz / PF > 0.95			
Maximum continuous charging current <sup>4</sup> (Secondary out-	80A (4A)	50A (4A)	120 (4A)	70A (4A)
Standard charge voltage (bulk / float @ 25°C)	14.3V / 13.3V	28.6V / 26.6V	14.3V / 13.3V	28.6V / 26.6V
Charge algorithm	IUoUoP, intelligent 4-stage, temperature compensated (programmable)			
AC Transfer switch				
Maximum continuous current	30Arms			
Transfer time (typical)	0ms (inverter → mains) / < 5ms (mains → inverter)			
General				
TBSLink enabled	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 (H x W x D)	370 x 431 x 132mm			
Total weight	18.5 kg	18.5 kg	19.0 kg	19.0 kg
Protection class / operating temp. / storage temp	P21 / -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			

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. 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

