

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



E-Mark certification pending, expected certification date May 1st 2019

- Design emphasis on reliability and performance
- Pure sine wave inverter with 4 stage programmable battery charger
- AC PowerBoost function
- AC Input Current Limit function
- Super fast AC transfer switch
- Easy control from remote panel
- Programmable relay for controlling external devices
- Windows software control and programming tools

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-sine wave 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 replenishes 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 :				
TBSLINK 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			

