

COTEK SB2000

Inverter/Charger COMBI

FC

CE



- ✓ Battery charger current 12VDC@100A Max. / 24VDC @50A Max.
- ✓ Multi-functional, with intelligent power management
- ✓ Maximum Output Power up to 8KW
- ✓ Provide 5A Max. Second charger for Engine Start Battery
- ✓ Built-in user-friendly detachable remote control

Description

The SB2000 –Inverter/Charger COMBI is a combination of a pure sine wave ($THD < 3\%$) inverter and an intelligent battery charger with advanced 4-stage IUoUoU charging algorithms. SB2000 charges batteries automatically, when it is connected to the grid power. SB2000 comes with power sharing function to ensure that the battery charger in the COMBI automatically switches to a lower capacity as soon as a given preset value is reached. SB2000 can be parallel connected with the utility AC to double the inverter capacity to 8K watts under Support Function.

SB2000 provides up to 88% of high efficiency and wide operating temperature range (from $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$) designed for many harsh environments and its

innovative LCD display solution makes it easy to operate in distance. SB2000 also provides complete protection functions including Reverse polarity (fuse), Under voltage, Over voltage, Overload, Short circuit and Over temperature. Furthermore, SB2000 complies with the EMI (FCC Class A, EN55022, EN55024, EN61000-3-2, EN61000-3-3 and EN61000-4-2, 3, 4, 5, 6, 11) requirements.

SB2000 is scheduled to launch in **October 2013**. Look out for the SB2000 at your local distributors.

Application

It is designed for variety of mobile applications, as well as for most boats, yachts and marine vessels.

Features

- ❖ A microprocessor controls self-diagnosis and operation
- ❖ Power Sharing Function: SB2000 can automatically balance battery charger output and AC output according to AC loads condition, when the available power from AC-input is limited by SB2000
- ❖ Generator Function: AC output can parallel with the utility AC to generate up to maximum 4KW when shore power or grid power is limited
- ❖ Support Function: AC output can reach up to maximum 8KW (Inverter AC 2KW + Utility AC 6KW) for 230V system
- ❖ Easy to set up the function parameter with user-friendly display
- ❖ Provide additional 5A Max. second charger for Engine Start Battery
- ❖ Battery charger current 12VDC @100A Max. / 24VDC @50A Max.
- ❖ Built-in 25A rated by pass switch
- ❖ Power sharing function between charger and load
- ❖ Fan failure alarm with buzzer
- ❖ DIP switch and remote control management
- ❖ RS-232 communication
- ❖ Dry contact for system alarm

Protection Features

- ❖ **DC Input protection**
 - ◆ Reverse Polarity (Fuse) protection
 - ◆ Under voltage protection
 - ◆ Over voltage protection

❖ **AC Input protection**

- ◆ Short circuit protection
- ◆ Under voltage protection
- ◆ Over voltage protection

❖ **AC Output protection:**

- ◆ Short circuit protection
- ◆ Overload protection
- ◆ Over temperature protection

Series Model

Model	Rated power	Surge Power	Efficiency (full load@ rated VDC)	Charging current range	Working Temp.	Dimension (WxHxD)
SB2000-112	2000W	4000W	>84%	20~100A	-25°C~+40°C	331x155.8x464.8mm
SB2000-124			>86%	10~50A		
SB2000-212			>85%	20~100A		
SB2000-224			>88%	10~50A		

Please click [here](#) to view the product spec. sheet for further detailed information.