

## PC1000-LCD combi inverter



This 1kVA true sine wave inverter was designed to manage a remote stand-alone photovoltaic system from all aspects. With a built-in intelligent processor-controlled solar regulator (PSCD-20 type) it charges all battery types smoothly and quickly. System parameters can easily be read off using the menu and the LCD alphanumeric display or transferred to a computer via the RS232 communication port and evaluated with the help of its special software. Charging of the batteries is temperature-compensated using an external temperature sensor.

### LED Indications

On the top of the unit the following LED indicators can be found:

#### Inverter

- *Betrieb* (operating): the green LED shows that the inverter is switched on.
- *Fehler* (fault): red LED shows Warning or faulty operation of the inverter (see details in table)



#### Solar charge controller

- *Laden* (charging): green LED shows that the module input receives charging current
- *STATUS* (DC load off): red LED shows DC load disconnection. When the battery is recharged, the red LED switches off again.

### Specifications

Type	PC1000-LCD
<b>Battery connections</b>	
Nominal voltage $U_{nom}$	12 V
Input voltage range $U_{in}$	10...15 V
Max. input current / Fuse	120A / 4x30 A
Typical standby consumption with inverter ON	0,4A
Typical standby consumption with inverter OFF	4mA
Recommended battery $Ah_{min}$	120 Ah
<b>230V Output</b>	
Output voltage	225V +/- 5%
Output frequency	50Hz +/- 1%
Output current continuous / peak	4,5 / 12 A
Max. continuous power at $\cos \varphi > 0,8$	1000VA
Max. peak power at $\cos \varphi > 0,8$	2500VA
Typ. Efficiency (at nom. load power 1000W, $U_{in} = U_{nom}$ )	94 %
<b>Deep Discharge Protection - AC Load</b>	
Advance warning indication	<11,0 V
Switch-off threshold of DDP	9,8V
Reset threshold	12,0 V
<b>Solar charge controller - solar module input</b>	
Typ. standby consumption	4mA
Nominal current	20A
Charging limit, float charge at $T_u = 25^\circ C$	13,8V
Charging limit, gas control at $T_u = 25^\circ C$	14,4V
Gas control activation at $T_u = 25^\circ C$	12,3V
Temperature compensation	-4mV
<b>Deep Discharge Protection - DC Load</b>	
Nominal current	20A
DDP Load disconnection	10,5V
Reset threshold	12V
<b>Other data</b>	
Communication port:	RS232
LCD display:	1x16 digit, alphanumeric
Operating temperature	0...+ 40 °C
Dimensions (mm)	283x350x115
Weight	6 kg
EMC Directive	EN55011:03.91; EN50082-1:01.92
Low Voltage Directive	EN60335-1:09.94+A11:05.95