

Technical data

Model	XPC 1400-12	XPC 2200-24	XPC 2200-48	C 1600-12	C 2600-24	C 4000-48	HPC 2800-12	HPC 4400-24	HPC 6000-48	HPC 8000-48
Inverter										
Nominal battery voltage	12V	24V	48V	12V	24V	48V	12V	24V	48V	48V
Input voltage range	9.5 - 16V	19 - 32V	38 - 64V	9.5 - 16V	19 - 32V	38 - 64V	9.5 - 17V	19 - 34V	38 - 68V	38 - 68V
Continuous power @ 25°C	1100VA	1600VA	1600VA	1300VA	2300VA	3500VA	2500VA	4000VA	5000VA	7000VA
Power 30 min. @ 25°C	1400VA	2200VA	2200VA	1600VA	2600VA	4000VA	2800VA	4400VA	6000VA	8000VA
Maximum power load 5 sec.										
Maximum load										
Maximum asymmetric load										
Stand-by adjustment										
Cos φ										
Maximum efficiency	94%	95%	95%	94%	94%	95%	93%	94%	94%	96%
Consumption OFF/Stand-by/ON	0.5/0.6/4W	0.8/0.9/7W	1.2/1.3/7W	0.5/0.6/6W	0.8/0.9/9W	1.2/1.4/12W	1.4/1.8/10W	1.7/2.1/6W	2/2.5/18W	2/3/30W
Output frequency										
Output frequency crystal controlled										
Total harmonic distortion										
Dynamic behaviour on load change 0 to 100%										
Overload and short circuit protection										
Overheat protection										
Battery charger (4 STEP) I-U-Uo-Equalize (every 25 cycles)										
Charging current adjustable	0 - 45A	0 - 37A	0 - 20A	0 - 55A	0 - 55A	0 - 50A	0 - 110A	0 - 100A	0 - 70A	0 - 90A
Input current balance adjustment (Power Sharing)										
Maximum input voltage										
Input ac voltage range										
Input frequency										
Power Factor Correction (PFC)										
Optional solar charger (4 stages) I-U-Uo-Equalize (every 25 cycles)										
Maximum PV open circuit voltage (V)	25V	45V	90V	25V	45V	90V				
Maximum charge current (A)	30A	30A	20A	30A	30A	20A				
Working principle: I-U-Uo-Equalize (every 25 cycles)										
Battery control (thresholds and times adjustable by the user)										
Absorption time										
End charge cycle voltage	14.4V	28.8V	57.6V	14.4V	28.8V	57.6V	14.4V	28.8V	57.6V	57.6V
Floating voltage	13.6V	27.2V	54.4V	13.6V	27.2V	54.4V	13.6V	27.2V	54.4V	54.4V
Equalization voltage	15.6V	31.2V	62.4V	15.6V	31.2V	62.4V	15.6V	31.2V	62.4V	62.4V
Deep-discharge protection	10.8V	21.6V	43.2V	10.8V	21.6V	43.2V	10.8V	21.6V	43.2V	43.2V
Temperature compensation (optional CT-35)										
General data										
Multifunction contact - potential free (3 points)	16A/3.7kVA	16A/3.7kVA	16A/3.7kVA	16A/3.7kVA	16A/3.7kVA	16A/3.7kVA				
Max. current on transfer relay	16A/3.7kVA	16A/3.7kVA	16A/3.7kVA	16A/3.7kVA	16A/3.7kVA	16A/3.7kVA				
Transfer time										
Weight	11.7 kg	12.6 kg	16 kg	17.1 kg	17.1 kg	29.4 kg	33 kg	39 kg	41 kg	45 kg
Dimension h x l x L (mm)			124x215x410	124x215x480	124x215x670	124x215x670				
Protection index IP20										
ECC conformity										
Operating temperature range										
Ventilation										
Acoustic level without I with ventilation										
Warranty										
Options										
Solar charge controller (XPC & Compact)										
Remote control (112 x 138 x 25 mm / 20 m cable)										
Remote power sharing (20 m cable)										
IP-23 top cover (XPC & Compact)										
AC cable cover (XPC & Compact)										
Battery temp. sensor (58 x 51.5 x 22 mm / 3 m cable)										

Data may change without any notice

STUDER INNOTEC
Rue des Casernes 57
1950 Sion - Switzerland

Tel: +41 (0)27 205 60 80
Fax: +41 (0)27 205 60 88

info@studer-inno.com
www.studer-inno.com

Compact series



XP COMPACT

Combi system with 1400 to 2200VA Inverter and Battery Charger 20 to 45A

COMPACT

Combi system with 1600 to 4000VA Inverter and Battery Charger 50 to 55A



HP COMPACT

Combi system with 2800 to 8000VA Inverter and Battery Charger 70 to 110A

- Sine wave inverter - Battery charger - Transfer system
- Range from 1400W to 8000VA
- Excellent overload capabilities
- Fully automatic functions
- Back-up applications
- Best reliability



Swiss made power



Our **COMPACT** series consist of devices including 3 fully automatic functions : an inverter, a battery charger and a transfer system.

- the inverter converts the battery voltage to AC voltage for all electrical appliances
- the high power charger supplies charge current to the battery
- the automatic transfer system manages the available power

The **COMPACT** series benefit from our "one step ahead" technology in the field of inverters.

THE COMPACT SERIES OFFER:

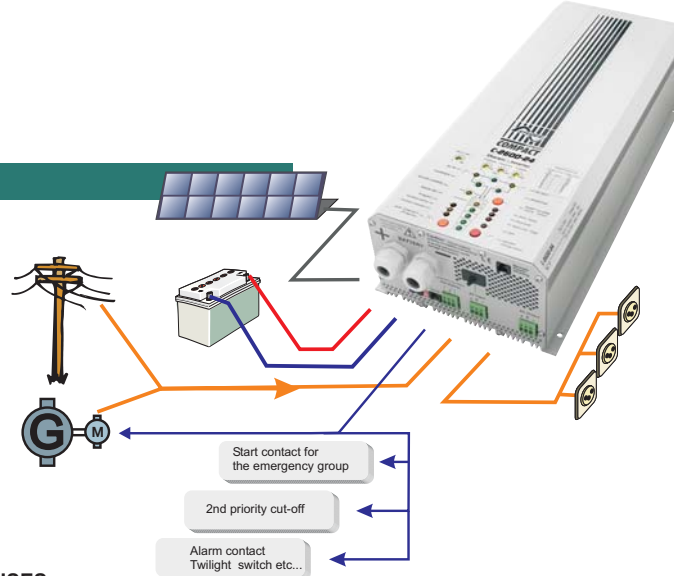
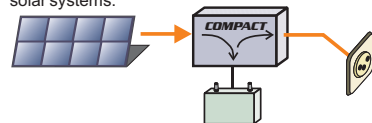
- a high and steady efficiency
- an outstanding overload capability, thanks to the combined use of a toroidal transformer and a MOS power stage
- an ultra-fast regulation and a control by micro-processor
- an electrical supply to any kind of appliance
- a fast transfer relay
- a 4 STAGE (I/U/Uo/equalizing) battery charger with Power Factor Correction (PFC)
- a complete internal protection of the Inverter-charger (overload, overheat, short-circuit, reverse polarity)
- a stand-by level adjustable on a large range and from a very low threshold on
- no noise thanks to HF-switching > 20kHz

SPECIFIC FEATURES

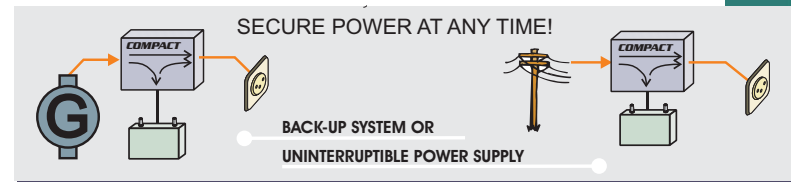
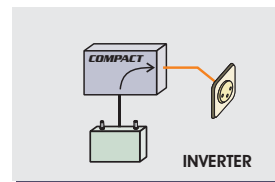
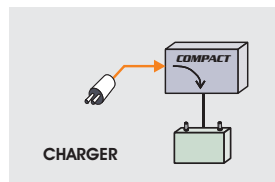
- comprehensive display (with RCC-01 for the XP Compact)
- large programming possibilities thanks to a multifunctional auxiliary contact (with RCC-01 for the XP Compact)
- Power sharing for limited power sources (not in XP Compact)
- equipped with battery cables (XP Compact & Compact)
- easy wall mounting

OPTIONAL SOLAR CHARGE CONTROLLER (XPC & COMPACT)

A 4 STEP (I/U/Uo/Equalizing) solar charge controller can be supplied in option, built-in with the Inverter-charger making it an "all-in-one" tool for solar systems.



POSSIBLE USES



OPTIONAL ACCESSORIES					
XP Compact	✓	✓	✓	✓	✓
Compact	✓	✓	✓	✓	✓
HP Compact	✓			✓	✓

Remote control with the RCC-01

Comprehensive LED display and possible programming of all Inverter-chargers remotely, supplied with a 20m cable.

Protection of the cables with the cover CFC-01

This cover brings an additional protection of the terminals by means of glands.

Protection against intrusion and splashing with the cover C-IP23

This protective cover is installed after mounting of the COMBI. It does increase its protection from IP 20 to IP 23.

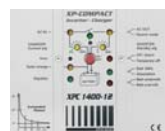
Remote power sharing with the RPS-01

The adjustment of the input current can be handled remotely by means of a remote control, supplied with a 20m cable.

Temperature sensor CT-35

The sensor will adjust the battery voltage thresholds to the temperature variations.

DISPLAY



XP COMPACT
LED display (fully programmable only with RCC-01)

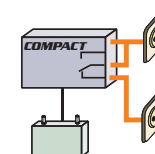


COMPACT & HP COMPACT
Comprehensive display Fully programmable

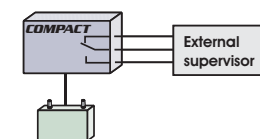
MULTIFUNCTIONAL CONTACT

The 16 A. potential free contact can be programmed according to the user wishes. It can react according to the battery levels as well as to the system status (alarm conditions, presence of the public grid, sunlight's presence...). And it enables for example :

automatic disconnection of second priority users



alarm contact for an external control, buzzer, MODEM, radio alarm, ...



APPLICATIONS

Ground-based
- rural electrification
- health & education
- holidays & leisures
- solar installations

Mobile
- boats & yachts
- camping-cars
- emergency vehicles
- cars & trucks

Professional
- secured power supply
- telecom & signalisation
- clean power source
- emergency lighting

