

# SCS2 EN24.10

## ENERGY STATION

### Input 230Vac - Output 24Vdc 10A

#### GENERAL SPECIFICATION

Switching technology

Microcontroller-based system

Three-digit display

Electronic stabilization

Electronic battery test

Exclusion button battery

Sealed lead batteries

Wall or floor mounting

CE conformity

Made in Italy

The SCS2 EN is an electronic device which provides feeding to 24 Vdc systems, typically used in the field of telecommunication (e.g. telephone communication station).

The energy station guarantees supply continuity even in the case of an electrical black out, thanks to the batteries connected to the system.

The SCS2 EN uses microelectronic technology which facilitates its operation and maintenance and makes its service highly reliable and safe.

Its highly developed performance, advanced architectural design, and the innovative utilization of a microprocessor are some of the features which make it an advanced energy station.

The main technical features are sinusoidal absorption with a power of over 99%, high efficiency and low psophometric noise.

The energy station SCS2 EN includes an input Power Factor Conversion and a DC/DC high frequency converter which is able to produce clean energy reducing the output psophometric noise to a minimum level and drastically reducing the harmonic line distortion and the power factor which is practically equal to 1. The high efficiency obtained and the resulting low dissipation also allow for great energetic saving.



# SCS2 EN24.10

## ENERGY STATION

### Input 230Vac - Output 24Vdc

### 10A



#### TECHNICAL SPECIFICATION

MODEL		SCS2EN24.10	
<b>INPUT</b>			
Main voltage	230Vac (-20 % +15%)		
Main frequency	50Hz		
Nominal input current	2.1A		
Max input current	4A max		
Optional	input voltage 115Vac 60Hz		
<b>OUTPUT</b>			
Output voltage	24Vdc		
Output current	10A ± 3%		
Charge voltage set	27Vdc ±1%		
Static voltage stability	±1%		
Psophometric noise with connected battery	<2mV (-51.7dBm)		
Voltage ripple with connected battery	<50mVeff.		
Load shut down for low battery	21,5Vdc ±2%		
Ground isolation resistance	>50MOHM		
Efficiency	>80%		
<b>ISOLATION</b>			
Electric isolation input-output	2.000Vca 1minute		
Electric isolation input-ground	2.000Vca 1minute		
Electric isolation output-ground	500Vcc 1minute		
<b>BATTERY</b>			
Type of batteries	2 X 12V	(2+2) X 12V	
Battery sealed lead without maintenance	7.2AH or 18AH	7,2AH	18AH
Battery test	Microprocessor		
Battery Exclude	With button on frontal panel		
<b>PROTECTION ELEMENTS</b>			
Protection	Overload – Output short-circuit protection – Output and input fuses		
LED indicators	Main supplie – Battery mode – Battery failure		
DISPLAY LCD	Voltage and current		
Alarm contact	Rectifier failure – Line off – Battery low - Battery failure		
<b>GENERAL DESCRIPTION</b>			
Working temperature	0 ÷ 45°C		
Storage temperature	-25 ÷ +45°C		
Relative umidity at 35°C	<80%		
Ventilation	Fanless		
Protection degree	IP21		
<b>OTHER FEATURES</b>			
Installation mode	Wall or floor	Rack cabinet	Rack cabinet
Dimension W x Dx H (mm)	315x190x320	19"x322x3U	19"x388x4U
Weight with batteries	15 / 30 Kg	15 Kg	28 Kg
Compliance Safety	EN60950 / CEI 103/1-11		
EMC	Direttiva 89/336/CEE		

Specifications are subject to change without prior notice.



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# SCS2 EN24.20/40 ENERGY STATION Input 230Vac - Output 24Vdc 20A - 40A

## GENERAL SPECIFICATION

Switching technology

Microcontroller-based system

LED and Display LCD (16x2 line)

Electronic battery test

Exclusion button battery

Remote control by RS235-RS485

CE conformity

Made in Italy

The SCS2 EN is an electronic device which provides feeding to 24 Vdc systems, typically used in the field of telecommunication (e.g. telephone communication station).

The energy station guarantees supply continuity even in the case of an electrical black out, thanks to the batteries connected to the system.

The SCS2 EN uses microelectronic technology which facilitates its operation and maintenance and makes its service highly reliable and safe.

Its highly developed performance, advanced architectural design, and the innovative utilization of a microprocessor are some of the features which make it an advanced energy station.

The main technical features are sinusoidal absorption with a power of over 99%, high efficiency and low psophometric noise.

The energy station SCS2 EN includes an input Power Factor Conversion and a DC/DC high frequency converter which is able to produce clean energy reducing the output psophometric noise to a minimum level and drastically reducing the harmonic line distortion and the power factor which is practically equal to 1. The high efficiency obtained and the resulting low dissipation also allow for great energetic saving.

The innovative microprocessor digital structure allows for the control of all the functions of the energy station which, through a crystal liquid display and a maintenance console, visualizes the fundamental parameters of operation and points out any state of alarm which may arise. These indications are signaled in real time and are recorded within a "historical" menu. Thanks to the information provided, the user is able to completely control the system, preventing any critical situations and correcting any eventual malfunctioning of the system.

Besides this, SCS2 EN, through serial connection ( RS232 or RS485 ) and a local personal computer or through a external modem connection and a remote personal computer, using an optional software kit, can control many other functional parameters (not provided in the standard package) and can carry out the remote diagnosis service.



# SCS2 EN24.20/40 ENERGY STATION

## Input 230Vac - Output 24Vdc 20A - 40A



### TECHNICAL SPECIFICATION

MODEL	SCS2 EN24.20	SCS2 EN24.40
<b>INPUT</b>		
Voltage / Frequency	230Vac (-20% +15%) / 50 Hz	
Nominal input current	4A	7,6A
Max input current	4,8A max	9A max
Power factor	>0.98	
<b>OUTPUT</b>		
Output voltage	24Vdc	
Charge voltage set	24 ÷ 27,5 Vdc (Programmable)	
Polarity to ground	positive or floating	
Output current	20A ± 3%	40A ± 3%
Static voltage stability	±1%	
Psophometric noise with connected battery	<2mV (-51.7dBm)	
Voltage ripple with connected battery	<50mVeff.	
Load shut down for low battery	21,5 Vdc ±2%	
Ground isolation resistance	>50MOHM	
Efficiency	>80%	
<b>ISOLATION</b>		
Electric isolation input-output	2.000Vca 1minute	
Electric isolation input-ground	2.000Vca 1minute	
Electric isolation output-ground	500Vdc 1minute	
<b>BATTERY</b>		
Type of batteries		
Battery test	Microprocessor	
Battery Exclude	With button on frontal panel	
<b>PROTECTION ELEMENTS</b>		
Protection	Overload – Overheating protection - Output short-circuit protection – Output and input fuses – Battery fuse Electronic battery test - Control output voltage	
Acoustic signal (buzzer)	Battery low – Overload – Fault	
LED indicators	Main supplie – Battery mode – Battery breakdown Plant feed	
DISPLAY LCD Signal (16 bit- 2 line)	Output voltage - Main voltage - Output current Battery current – Fuse breakage - Overheating Battery test - Date and Time - Log - Assistance menu	
Alarm contact ( No or Nc )	Main off – Battery low – Battery failure – Fault	
<b>GENERAL DESCRIPTION</b>		
Working temperature	0 ÷ 45°C	
Storage temperature	-25 ÷ +45°C	
Relative umidity at 35°C	<80%	
International Protection	IP21	
Ventilation	forced air-cooling	
<b>OTHER FEATURES</b>		
Parallel	up to 7 unit with communication protocol Can-bus	
Remote control	modem or serial interface serial interface RS232/RS485 – SNMP menagement (optional)	
Dimensioni rack 19" WxDxH (external batteries)	19" 2 unit – 422x385x88,50 mm	
Weight	14 Kg	
Compliance Safety	EN60950 / CEI 103/1-11	
EMC	89/336/CEE	

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# SCS2 EN24.25/50R ENERGY STATION

Input 230Vac - Output 24Vdc  
25A - 50A

## GENERAL SPECIFICATION

- Power supply input PFC Power Factor Corrector 1 and DC/DC high frequency converter.
- Design rack 19" whit LCD display
- Output 24Vdc system, used in the field of telecommunication.

The SCS2 EN is an electronic device which provides feeding to 24 Vdc systems, typically used in the field of telecommunication (e.g. telephone communication station).

The energy station guarantees supply continuity even in the case of an electrical black out, thanks to the batteries connected to the system.

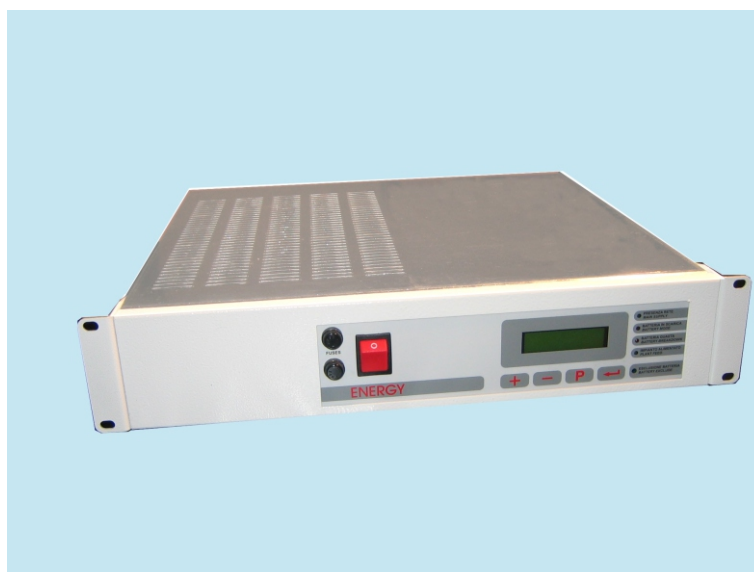
The SCS2 EN uses microelectronic technology which facilitates its operation and maintenance and makes its service highly reliable and safe.

Its highly developed performance, advanced architectural design, and the innovative utilization of a microprocessor are some of the features which make it an advanced energy station.

The main technical features are sinusoidal absorption with a power of over 99%, high efficiency and low psophometric noise.

The energy station SCS2 EN includes an input Power Factor Conversion and a DC/DC high frequency converter which is able to produce clean energy reducing the output psophometric noise to a minimum level and drastically reducing the harmonic line distortion and the power factor which is practically equal to 1. The high efficiency obtained and the resulting low dissipation also allow for great energetic saving.

The innovative microprocessor digital structure allows for the control of all the functions of the energy station which, through a crystal liquid display and a maintenance console, visualizes the fundamental parameters of operation and points out any state of alarm which may arise. These indications are signaled in real time and are recorded within a "historical" menu. Thanks to the information provided, the user is able to completely control the system, preventing any critical situations and correcting any eventual malfunctioning of the system. Besides this, SCS2 EN, through serial connection ( RS232 or RS485 ) and a local personal computer or through a external modem connection and a remote personal computer, using an optional software kit, can control many other functional parameters (not provided in the standard package) and can carry out the remote diagnosis service.



# SCS2 EN24.25/50R

## ENERGY STATION

Input 230Vac - Output 24Vdc  
25A - 50A



### TECHNICAL SPECIFICATION

MODEL	SCS2 EN24.25R	SCS2 EN24.50R
<b>INPUT</b>		
Main voltage / Main frequency	230Vac (-20% +15%) / 50 Hz	
Nominal input current	4A	7,6A
Max input current	4,8A max	9A max
Power factor	>0.98	
<b>OUTPUT</b>		
Output voltage	24 Vdc	
Charge voltage set	27 Vdc	
Output current	25 ± 3%	50A ± 3%
Static voltage stability	±1% (variazione rete -10% +15% carico 10% a 100%)	
Psophometric noise with connected battery	<2mV (-51.7dBm)	
Voltage ripple with connected battery	<50mVeff.	
Load shut down for low battery	21,5 Vdc ±2%	
Ground isolation resistance	>50MOHM	
<b>ISOLATION</b>		
Electric isolation input-output	2.000Vca 1 minute	
Electric isolation input-ground	2.000Vca 1 minute	
Electric isolation output-ground	500Vcc 1 minute	
<b>BATTERY</b>		
Batteries without maintenance (in external box)	2 x 12V 40AH / 100AH	
Battery test	Manual / Automatic	
Battery Exclude	with button on display	
<b>PROTECTION ELEMENTS</b>		
Protection	Output fuses – Output short-circuit protection Electronic battery test – Overload – Output overvoltage Overheating protection – Main input line filters Breakaway charge at minimum battery voltage	
Acoustic signal (buzzer)	Any alarm	
LED indicators	Main supplie – Battery mode – Battery breakdown – Plant feed	
DISPLAY LCD Signal (16 bit- 2 line)	Functioning – Battery mode – Line shortage – Overvoltage - Power Fuse breakage - Battery fuse breakage - Charge fuse breakage - Rich. starter Overload - Overheating	
Alarm contact	Battery low – Battery failure – Line off - Alarm	
<b>GENERAL DESCRIPTION</b>		
Working temperature	0 ÷ 45°C	
Storage temperature	-25 ÷ +45°C	
Relative umidity at 35°C	<80%	
Ventilation	forced air-cooling	
Parallel	Max 7 unit ( Can-Bus comunication)	
Interface	RS232/RS485 – SNMP menagement(opzional)	
Rack dimension LxPxH (w/batterie )	19" 2 unit – 422x385x88,50 mm	
Weight	14 Kg	16 Kg
Safety / Line protection	EN60950 / CEI 103/1-11	
Directive EMC	Directive 89/336/EEC	

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