SIEL DATSEPA1Y18CREN

SIEL Energy Systems

POWER PROTECTION SOLUTIONS

For mission critical applications & essential services

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Sentinel Pro SEP-UPS System

1:1 700-3000 VA













GS Nemko certified



Supercaps UPS



Plug & Play installation



HIGHLIGHTS

- Powerfactor 0.9
- Operating flexibility
- Emergency function
- Battery optimisation
- Runtime expandability
- Lownoise level

Sentinel Pro uses on-line double conversion technology, resulting in the highest levels of reliability and maximum protection for critical loads such asservers, and IT and voice/dataapplications.

Forbusiness continuity applications requiring long battery runtimes, battery autonomy can be extended up to several hours using ERmodels fitted with more powerful battery chargers.

The front display panel has been entirely redesigned, adding an LCDdisplay that shows the input and output voltages, battery readings and UPS operating status information.

The inverter and the microprocessor control stage has been designed to provide increased efficiency and greater configuration options. Maximum expandability: the Sentinel Pro is supplied as standard with a USBport and an expansion slot for protocol conversion or relay contacts boards.

With energy savings in mind, Sentinel Prois also fitted with a shut-off button to reduce energy consumption to zero during prolonged periods of inactivity (ECOLINE). Sentinel Prois available in 700 VA, 1000 VA, 1500 VA, 2200 VA and 3000 VA models.

- Powerfactor correction (UPSinput power factor, close to 1)
- Wide input voltage tolerance range (from 140 V to 276 V) without battery intervention.
- Runtime extendable up to several hours
- Fully configurable using UPSTools configuration software
- Highly reliable batteries (automatic and manually-activated battery test)
- High level of UPS reliability (total microprocessor control)
- Low impact on the mains (sinusoidal take up).

Advanced communications

 Multi-platform communication for all operating systems and network environments: PowerShield³ supervision and shutdown software for Windows operating systems 10, 8, 7, Hyper-V, 2016, 2012, and previous versions, Mac OSX, Linux, VMWare ESXi,Citrix XenServer and other Unix operating systems

- UPSTools configuration and customisation software supplied as standard
- RS232serial port and opto-isolated contacts
- USBport
- Slot for communications boards.

OPTIONS

SOFTWARE	
PowerShield ³	
PowerNetGuard	
ACCESSORIES	
ACCESSORIES NETMAN204	

MULTICOM372
MULTICOM384
MULTII/O
MULTIPANEL
Manual Bypass 16 A
Automatic Bypass 16 A

BATTERY BOX

MODELS	BBSEP36-A3 / BBSEP36-M1	BBSEP72-A3 / BBSEP72-M1	BBSEP36-B1 / BBSEP72-B1
Dimensions (mm)	23 ES	790	21/5

Operatingflexibility

Different operating modes that can be programmed according to user requirements and the load to be powered have been introduced in order to reduce energy consumption.

- On line: maximum load protection and output voltage waveform quality
- EcoMode: the UPSuses line interactive technology, with the load powered by the mains, reducing consumption and thus improving efficiency (up to 98%).
- Smart Active Mode: the UPSautomatically selects on-line or line interactive operation, depending on the quality of the mains supply, checking the number, frequency and type of disturbances present
- Stand by Off (emergency): the UPS supplies the load only when the mains fails. The inverter begins working with a progressive start-up sequence to prevent inrush currents.
- Frequencyconverter operation (50 or 60 Hz).



This configuration ensures the operation of emergency systems that must be supplied in the event of a mains power failure, such as emergency lighting, fire detection/ extinguishing systems and alarms. When the mains power supply fails, the inverter begins powering the loads with a progressive start-up (Soft Start) in order to prevent overload. Sentinel Prois compliant for installation in medium-voltage transformer rooms in accordancewith applicable legislation, for the power supply with reserve charge of medium-voltage coils.



Battery optimisation

The Sentinel Pro range has a deep discharge protection device to optimise battery life. Periodically the UPS carries out a battery efficiency test (which can also be manually activated); its wide input voltage tolerance range helps to reduce battery usage and maintain performance over time.

Runtime expandability

Optional battery extension packs can be connected to increase UPSruntime. In addition the Sentinel Prorange includes ERversions with no internal batteries and more powerful battery chargers for longer runtimes.

Low noise level

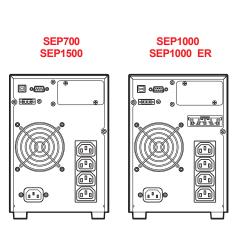
Thanksto the use of high frequency components and load-based fan speed control, the noise produced by the UPSis less than 40 dBA.

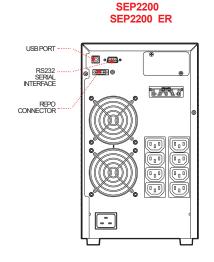
Features

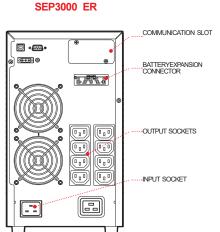
- Filtered, stabilised and reliable voltage: double conversion on-line technology (VFIcompliant with IEC62040-3) with filters for the suppression of atmospheric disturbances.
- High overload capability (up to 150%)
- Programmable Auto-restart when mains is restored
- · Battery start-up (Cold Start)

SEP3000

DETAILS







MODELS	SEP700	SEP1000	SEP1000ER	SEP1500	SEP2200	SEP2200ER	SEP3000	SEP3000ER		
POWER	700 VA/630 W	1000 V	A/900 W	1500 VA/1350 W	2200 V	A/1980 W	3000 V	A/2700 W		
INPUT										
Nominal voltage				220-230	-240 Vac					
Voltage range without battery intervention		140 Vac< Vin < 276 Vac@50% load / 184 Vac< Vin < 276 Vac@ 100% load								
Voltage tolerance				230 Va	c± 20%					
Maximum permitted voltage		300 Vac								
Nominal frequency		50/60 Hz								
Frequency range		50 Hz± 5% / 60 Hz± 5%								
Powerfactor		> 0.99								
Current distortion				≤7	%					
BYPASS		,					'			
Voltage tolerance		180 - 264 Vac								
Frequency tolerance			Frequencyse	lected (from ±	1.5Hz to ±5Hz	configurable)				
Overload Times			125%	for 5 seconds	s,150% for 1	second				
OUTPUT										
Voltage distortion with linear load / with non-linear load				< 2% /	< 4%					
Frequency			Selecta	able: 50 Hz or 6	60 Hz or self-l	earning				
Static variation				± 1	%					
Dynamic variation				≤ 5% in	20 msec.					
Waveform				Sinus	soidal					
Current crest factor				3	: 1					
Efficiency ECOand Smart Active Modes	98%									
BATTERIES										
Туре			VRLAAGMr	maintenance-fr	ee lead based	d; Supercaps				
Rechargetime	2-4 h	nours	N.A.	2-4 h	hours N.A. 2-4 hours N.A.					
OTHER FEATURES										
Net weight (kg)	10.9	13.3	7	14.8	25.6	14	28	15		
Grossweight (kg)	12.5	14.9	8.6	15.5	28.8	17	31.2	18		
Dimensions (WxDxH)(mm)	158 x 422 x 235 190 x 446 x 333									
Packaging dimensions (WxDxH) (mm)	245 x 500 x 340 325 x 585 x 470					85 x 470				
Protection against overvoltage	300 joules									
Protections	Ove	Overcurrent - short-circuit - overvoltage - undervoltage - temperature - excessive low battery								
Communications	USB/ DB9 with RS232 and contacts / Slot for communications interface									
Input plugs	1 IEC320 C14 1 IEC320 C20									
Output sockets	4 IEC320 C13				8 IEC320 C13 8 IEC320 C13 + 1 IEC320 C19					
Standards	Safety: EN62040-1 and Directive 2014/35/EU; EMC:EN620040-2 and Directives 2014/30/EU						0/EU			
Operating temperature	0 °C/ +40 °C									
Relative humidity	< 95% non-condensing									
Colour	Black									
Noise level at 1 m (ECOMode)	< 40 dBA									
Standard equipment provided	Power cable, IEC-IECcable, USBcable, safety manual, quick start guide									





